Slow Traffic Net: Tuesday & Thursday 9pm EDT on 3.682 Century Award Net: Sunday 2000Z on 14.058MHz

ry Award Net: Sunday 2000Z on 14.058MHz

Saturday QSO Groups: 14.058 at 2000Z and 7.058 at 2300Z

Please keep watch on the Novice Bands and frequencies ending in .x58 (.058, .158, .258 etc)

<u>North American</u> <u>Memo</u>

Nancy Kott WZ8C Post Office Box 47 Hadley MI 48440

810-797-5388 Email: nancy@tir.com http://ngnvv.qrp.com/~fist.



WZ8C reserves the right to edit submissions for space, clarity and topic suitability. Comments not attributed to another are written by WZ8C. Articles from The Keynote may be reprinted if credit is given to the original author.

Our TENTH anniversary of the Founding of FISTS by Geo G3ZQS is this September. The DX Straight Key Week will be taking place the first week of September, as it always does. While it is a popular event, not everyone enjoys using a straight key. I would like to see something in which all FISTS can participate. We should do something special. A Special Event Weekend would be fun and something everyone can do.

Starting September 9 thru Sept 12, your shack can become a FISTS Special Event Station by calling (or answering) CQ FISTS SE. Every station you work will be eligible to receive a Special Anniversary Special Event Certificate for helping us celebrate.

The stations you work will QSL with an SASE to your QTH. It is your responsibility as an SE (Special Event) station to check your logs, verify the contacts, then send me a note letting me know how many Anniversary Certificates you'll need to return the SASE's you've received. I'll send you the appropriate number of Certificates and you can complete them with the QSO info.

We'll award a plaque to the FISTS member who works the most stations that weekend and other awards as participation warrants. I realize that some FISTS may be a bit apprehensive about being a SE station, so I'll have a sample QSO exchange and more details in

the next KeyNote. I'll submit info about our SE to the major magazines to help publicize it.

Slow Ragchewing Group: W8BI 8pm EDT Wed on 3.720

If anyone would like to submit a design for the Anniversary Celebration Special Event certificate, in one color, pse go for it and send it to me.

Many, many thanks for all your cards, calls, letters and Emails regarding my debate with W5YI! I'd love to print them all here in the KeyNote, but it might go to my head to see them in print all in one place, hi.

I really appreciate your support. As you know CW, Ham Radio and FISTS are very important to me and your feedback lets me know I'm on the right track.

The Pro-CW requirement side of the Debate sure has been downplayed, particularly by CQ magazine. They ran a two and a half page article by W5YI under the heading of Washington Happenings, giving his verbatim transcript plus a whole lot more. All that was mentioned about the Pro-CW side was that "the debate was against WZ8C of F.I.S.T.S." They never contacted me to offer equal time, which I think is very unfair. W5YI even got FISTS name wrong, calling us F.I.S.T.S.!

After hearing about this article, I faxed them the transcript of my opening remarks, without the embellishment they allowed W5YI, but I never heard anything from them. I just wanted to let you know that I DID try to get them to be fair and print the other side of the story, but they chose to ignore me and all the other FISTS who told me they wrote to CQ in protest.

I hope you had a FB Field Day! The FISTS of MI Field Day was great. The weather couldn't have been better; low 80's and a gentle breeze. All the tents stayed up, the antennas worked great - no interference between rigs, batteries lasted all weekend. Twelve people show up over the course of the weekend. Everyone who wanted to operate was able to and we had enough people logging, too. We even had a crew there for setup and tear-down. We had a delicious Saturday evening potluck barbecue. Everything was practically perfect I don't know how we're going to top it next year! Well.... Maybe next year I won't burn the bratwurst for Sunday's lunch...but they were still tasty!

There's a membership list enclosed in this month's KeyNote, making it a record 40 pages! Whew! Hope you enjoy it......

HOW DO I...?

... ORDER CLUB SUPPLIES? Irene WO8E 25206 Hayes, Roseville MI 48066 has Gold logo stickers, 200 for \$5

Blue enamel/gold metal clasp-back logo pins \$3.50; Cloth logo patches 3" octagon shaped \$1.50 Rubber stamps with the FISTS logo for use with an ink pad (not included) for \$5. "I Support KNOW Code" buttons for .75 Pse make checks out to FISTS. These prices DO include first class postage.

Cobalt blue w/gold FISTS logo coffee mugs are available from Joe Falcone 9614 Arden Ave, Livonia MI 48150 for \$4.50 plus \$3 postage - make checks payable to Joe Falcone.

...GET AN UP-TO-DATE MEMBERLIST?

The list is printed in the KeyNote twice a year and is also on the Web page. A printed updated list may be obtained by sending \$1 to Ed N7CFA 2628 Lilac Street, Longview WA 98632.

... Get on the FISTS On-Line Email List?

Send your Email address to blafont@tir.com

...GET/SEND FISTS QSL CARDS Via BURO? Brian W8BL 3050 Rochester Rd, Dryden MI 48428 handles the Buro. Pse sort your outgoing DX and NA cards alphabetically by call area. To get cards you may have waiting, send loose stamps to Brian and he'll use them to send your cards to you as they come in. ...RENEW MY KEYNOTE SUBSCRIPTION? Send a check/

money order made out to FISTS for \$15/year to Nancy WZ8C POBox 47 Hadley MI 48440

SPONSOR A DX FISTS?...

DX FISTS have a separate block of numbers; their Keynote is mailed from Geo G3ZQS. Send their info to Geo 119 Cemetery Rd, Darwen Lancs, BB3 2LZ; he'll send them a DX application. ... HAVE APPS/SAMPLES SENT TO FRIENDS? Send their address, SASE or loose stamp to hold down expenses, to Joe K5HLR 29 Melrose Dr, Marrero LA, 70072. Pse enclose \$1 if sample Keynote is requested.

...APPLY FOR THE CENTURY or WAS AWARD? Send a list of contacts (call, FISTS #, qth, date, time, band) and power used to Lee N9NVV 4530 N 15th Street Terre Haute IN 47805 Don't submit OSLS

... VOLUNTEER FOR or GET A CODE BUDDY?

Ed WA3WSJ 775 Moonflower Reading PA 19606

...SHARE COMPUTER SOFTWARE?

Joe WZ8U 5428 Bolander Grand Blanc MI 48439

... GET MY PHOTO ON THE PHOTOPAGES? Send a snapshot of yourself to Ken W8ROG 25206 Hayes Roseville MI 48066.

...GET A COPY OF FISTS PRESENTATION

to give at my local club meeting?

Contact Randy K8EZ, 2674 Gemini Dr, Lk Orion MI 48360 email - k8ez@concentric.net

...FIND THE WEB PAGE?

http://n9nvv.qrp.com/~fists

...SUGGEST IDEAS FOR THE WEB PAGE?

Contact Bill KK4KF at bjmyers@arc.net

....ORDER FISTS CLUB QSL CARDS?

send SASE to WX9X at 354 West St, Valparaiso IN 46383

...ORDER A FISTS CLUB ID BADGE?

Our club badge is dark blue, with FISTS logo in gold and your name, callsign and "Int'l Morse Preservation Society" in white. They are \$6.95 postpaid from The Signman of Baton Rouge 879 Castle Kirk Dr, Baton Rouge LA 70808; email nv5a@aol.com ...IMPROVE MY CODE SPEED and MEET LOTS OF NEW FRIENDS? Join FISTS! Get involved in the nets and activities!

CODE BUDDY APPLICATION

	License class
Callsign	License class
Mailing address	
Email address_	
Phone number ()
Bands worked_	
Sked time prefe	rred
Do you want to getting your spee	help a newcomer, do you need help
Do you want to getting your spee	help a newcomer, do you need help d up, making those first few contacts?
Do you want to getting your spee	help a newcomer, do you need help d up, making those first few contacts?
Do you want to getting your spee	help a newcomer, do you need help d up, making those first few contacts?
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Do you want to getting your spee Pse describe you	help a newcomer, do you need help d up, making those first few contacts? r situation and/or goals:
Do you want to getting your spee Pse describe you Please list any of	help a newcomer, do you need help d up, making those first few contacts? r situation and/or goals:
Do you want to getting your spee Pse describe you Please list any of	ther info that will help us hook you up
Do you want to getting your spee Pse describe you Please list any of	help a newcomer, do you need help d up, making those first few contacts? r situation and/or goals:

I flower Reading PA 19606

WELCOME TO THE NEW FISTS

- 3490 NIGDH Ed in Webster MA
- 3489 N5OB O.H. in Midfield TX (WA5SNL)
- 3488 K0PW Paul in Burnsville MN (K5HLR)
- 3487 KO4OR Bobi in Pensacola FL (KS4IE)
- 3486 W8CCN Tom in Fairmont WV (W4DXB)
- 3485 N0TBM Brian in Thornton CO (N5VC)
- 3484 N4KTW Charlie in Tuckerton NJ (WB2FXK)
- 3483 KB2NIF Paul in Somerville NJ (W8VQV)
- 3482 N0LAG George in Muscatine IA
- 3481 VA3JEG Jim Woodbridge ONT (N3XJQ/N4ZMP)
- 3480 KB9MUU Al in Quincy IL (AA9LS)
- 3479 KB2XX Paul in Charlottsesville VA
- 3478 KB7AQD Robert in Phoenix AZ (AE2L, NY2V)
- 3477 W3CL Carl in Washington DC (W4HU)
- 3476 KD6VMY Ernie in Escondido CA (K2SB)
- 3475 KA3UXU Larry in Leola PA
- 3474 KC5HLO Bob in Alice TX (KD5KP)
- 3473 AA0VF Bob in Bailey CO (AI9L)
- 3472 KE6PWJ Bill in Los Gatos CA (K4HXM)
- 3471 K6CB Chris in BishopCA(W6KN)
- 3470 W8DEA Don in North Canton OH (AE4AI)
- 3469 KK5LM Wes in Raymond MS (K5HLR)
- 3468 AC6YD Patrick in Rohnert Park CA (KC5GXC)
- 3467 N7TX Steve in Mesa AZ (K7GT)
- 3466 W10LK Ralph in Lexington MA (AA1RX)
- 3465 WB0CFF Carl in Belle Plaine MN (AF9H)
- 3464 W3DP Dick in Camp Hill PA (WS0I)
- 3463 KF6GCZ Hap in Boulder Creek CA (KF6GUH)
- 3462 AC6WQ Rob in San Dimas CA (K5HLR)
- 3461 KB8MMA Yvonne in Harrison MI (N8HG)
- 3460 AA9UO Jim in Dekalb IL (N9RFR)
- 3459 WB8DWD Jim in Greenville OH
- 3458 K4NR Tom in Gunter AFB AL (K3LT)
- 3457 N7DOH Paul in Newcastle WA (Web page)
- 3456 WB2ART Ken in Savville NY (WA6PWG)
- 3455 KD4LRP Rob in Falls Church VA (KE4HZM)
- 3454 W8JMA John in Waterford MI
- 3453 N9SQT Allan in Rolling Meadows IL
- 3452 NL7C Jim in Anchorage AK (KL7GN)
- 3451 K6PZE Dick in San Diego CA
- 3450 N4UY Jake in Vienna VA (AC5JH)
- 3449 KK5WH Doug in Choudrant LA (AI9L)
- 3448 XE1ABE Hugo in Morelia Mexico (AC5JH)
- 3447 KF4DPS Jim in Gadsden AL
- 3446 AAIRR Paul in Malden MA
- 3445 KC5VGQ Stephanie in Richardson TX (AD5X)
- 3444 KB9LYM Jackie in Madison WI
- 3443 NN6C Mike in Poway CA (KF4JRO)
- 3442 KR1B Bob in Norridgewock ME
- 3441 K0HHB Tom in St Louis MO (K0CNS)
- 3440 KA8FCC Don in Mount Vernon OH (AA8WP)
- 3439 KC5WUS Jim in Amarillo TX (KF6GUH)
- 3438 W1GU Michelle in Monmouth ME

- 3437 W1KX Bill in Monmouth ME
- 3436 W6AR Dewey in Palmdale CA (W6DDB)
- 3435 N4EC Ed in Gainesville FL (KS4XN)
- 3434 K4HFJ Pat in Gainsville FL (KS4XN)
- 3433 KE4ITN Tom in Cleveland AL (N4ZMP)
- 3432 K2JY Steve LkRonkonkomaNY(N2XHY/KG2LL)
- 3431 AC5JU Jim in Downsville LA
- 3430 W4PBL Frank in Lakeland FL (NB2T)
- 3429 KQ6EH Paul in Downey CA (N6EV)
- 3428 KC5RDC Charlie in Port Barre LA (AC5JH)
- 3427 KI0HQ Ed in Lampe MO (WB2FXK)
- 3426 K7ZYV Carl in Biloxi MS
- 3425 KB3AWR Forrest in Trafford PA (N2SLB)
- 3424 N3VVE Maggie in Trafford PA (N2SLB)
- 3423 KB4HAH Gene in Pensacola FL (N4ZMP)
- 3422 K1CIK Karl in Reading MI (K1SZK)
- 3421 W8DAN Dan in Xenia OH (WA0FAX)
- 3420 WL7WH Bob in Anchorage AK (W7UDZ)
- 3419 KC5NGS Jack in McAllen TX (KE4JSL)
- 3418 KB7TTY Bob in Oregon City OR (N7CFA)
- 3417 W9CBT Dick in Glenview IL (W4HZD)
- 3416 WR4T Theodore in Cincinnati OH
- 3415 W2RCM Rich in Wenonah NJ (K5HLR)
- 3414 NN3L Robin in Reading PA (WA3WSJ)
- 3413 KZ5W Brad, Cypress TX(#'s 3109,2079, 2481, 2632)
- 3412 W9UW Ron in Wis Rapids WI (WS0L)
- 3411 N5JEF Mac in Corpus Christ TX
- 3410 N7BYP Pete in Seattle WA (K5HLR)
- 3409 W2RWH Carl in St George UT (W8EQA)
- 3408 K9IH Warren in West Chicago IL (W7UDZ)
- 3407 N4ROA Dan in Gate City VA (K3WWP)
- 3406 KB9MZK Dave in Wheatfield IN (AF9H)
- 3405 KB2TCR Rick, Hampton Bays, NY(KF4DDE/K3DC)
- 3404 NM8Y Tim in Circleville OH (K3CJQ)
- 3403 N0FDX Donald in Naples FL (N1VWD)
- 3402 N3HAM Jerry in Philly PA (N2FX/G3ZQS)
- 3401 AA8PJ Jeff in Dover OH (VE1ZAC)
- 3400 KC8HRO FISTS CW Club of Michigan
- 3399 W4NPL Paul in Huntsville TN (VE3MIQ)
- 3398 KC7UXA Steve in Las Vegas NV (WA2BQI)
- 3397 N4ZH Terry in Vienna VA (K4WK)
- 3396 WA3NSR Bob in White Hall MD (WB2FXK)
- 3395 N6DK Dick in Sacramento CA (KE6TEN)
- 3394 W9BYH Bill in Tacoma WA (KB0LLZ)
- 3393 KM5EJ JD in Houston TX (N4ZMP)
- 3392 W8YNY Willie in Crystal Falls MI (N3PM)
- 3391 KC8BOJ Ed in Garfield Hts OH (KG8OO)
- 3390 KC8HHH Ben (KG8DA)
- 3389 K9HT Dave in West Lafayette IN
- 3388 KB9GKX RJ in Indianapolis (K8FC/N9NVV)
- 3387 KE4QLH David in Atlanta GA (KF4KUO)
- 3386 N8TW Ted in Miamisburg OH
- 3385 KB0GGQ Al in Mpls MN (KG8WF)
- 3384 AA8WP Larry in Mount Vernon OH
- 3383 K3VE Steve in Greensburg PA

3382 N1YXU Laurie in Leominster MA (KE1DY)

3381 W4ZYT Don in Virginia Beach VA (KC4VZK)

3380 WD0HBW Dick in Little Canada MN (AI9L)

3379 VE3UKU Tom in Ontario Canada (VE3FMC)

3378 KC7ORH Jim in Port Angeles WA (KF6GUH)

3377 K4MR Brad in Lake City FL (AI9L)

3376 AA9SD Chuck in Redwood Falls MN (N4ZMP)

3375 K8JWR Dan in Lambertville MI (N8NLE)

3374 K1HLG Bill in Bangor ME (AI9L)

3373 N7XN Dale in Tempe AZ

3372 W6OWP Bart in Paradise CA (N6RNP)

3371 KE6CTI Matt in Lake Los Angeles CA (W6UJX)

3370 K0CNS Rick in O'Fallon MO (W8EQA)

3369 KC3Y Buck in Riviera Beach MD (N3NNH)

3368 N3DU Tim in Sacramento CA (KE6TEN)

3367 W8CK Craig in Grand Rapids MI

3366 KD6POC Adam in Santa Rosa CA (K5HLR)

3365 NC0A Chuck in Canon City CO (W0RE)

3364 KE60IO Dorthea in Garden Grove CA

3363 KA2SJG Jack in Boonville NY (N2ZHF)

3362 N7KO Rick in Glendale AZ

3361 WIUBG Bob in Dover NH (KB1FK)

3360 WC6C Chuck in Pittsburg PA

3359 KF4MKB Bill in Stuart FL (N4ZMP)

3358 W9VZR Chuck in Whitefish Bay WI

3357 KC6IJE "TM" in Palo Alto CA (AD6AG)

3356 K5NC Waldo in Houston TX

3355 WA8UCS Chuck in Metamora MI (WZ8C)

3354 W7GO Tony in Las Vegas NV

3353 KF4PYE Ed in St Cloud FL (AE4IX)

3352 KC7SRL Kurt in Cave Junction OR (WA7MMG)

3351 W4GEK Chet in Oak Ridge TN (W4HZD)

Callsign changes

Bill #2016 AA2YH is now N2WF Rick #2662 KB0RMY is now K0QR Ray #3164 WB9PIL is now KG9KK Roland #2980 KB2WIK is now KG2LO Vic #2311 AC5GP is now N5VC Jerry #3291 N2XHY is now K6ZLL Geo #2667 KO4YV is now W4GEO Marc #3160 AA3JQ is now KE6P Tom #2627 AC4XT is now N3XT Carol #2081 AB2AC is now K2VS Allen #2635 WB5BIR is now N5XZ

Tom #2360 KC8DGU is now KI8CZ

PHOTOPAGE WINNER THIS MONTH

The winner of the June Photopage drawing is: The picture on page 12, number 23, Bill **KB9IWH**. You, too, can be a lucky winner of 200 FISTS

stickers and a FISTS patch. All you have to do is send in your photo for our Photopages! Winners are drawn by random. Everyone who has sent in a photo has an equal chance to win each month, but you can only win once. Send in your photo today! Ideal photo size is similar to the one of me on page 1 of this issue.

SILENT KEY

It is my very sad duty to inform the FISTS club that yet another fellow CW enthusiast has passed on. Charles Allen, AAOIO, FISTS number 1590 succumbed to a short battle with liver cancer on 12 Sunday, 1997. Charles was a fine CW operator. He will be missed greatly here in St. Louis.

From Peter, KI0EG FISTS #2735

CONDOLANCES

Our condolences to Ed WA3WSJ and his family on the passing of his father. Ed is our Code Buddy Coordinator. If you're waiting for a reply to a Code Buddy request, Ed asks that you please be patient as he has family things to take care of at this time.

Our sympathy also to Pete **K8OUA** and his family on the death of his mother. You will recognize Pete's callsign from his work with the Traffic column as well as the Sprints.

CONGRATS TO:

Tom KI8CZ (ex-KC8DGU) on his upgrade to Advanced from Tech Plus! Tom says "The 13 wpm code test is easier than I thought. Those who think they can't make it ought to give it a try, they may be pleasantly surprised"

Jerry K6ZLL (ex-N2XHY) on his upgrade to Advanced!

Roland KG2LO (ex-KB2WIK) on his upgrade from General to Advanced!

Bill WA8JPR on his upgrade to Advanced!

CORRECTIONS

Troy #3154 was incorrectly listed as WI0K; should be WI0R

John #3114 was incorrectly listed as WB3UEC, should be *WB2UEC*.

Chuck N8WDH was incorrectly identified as N8DWH. This is particularly inexcusable since I have known Chuck for years. You'd think I've have his call right by now. He told me to remember it by the phonetics 'Wavy Dark Hair', but I can never remember whether it's 'WAVY Dark Hair', or 'DARK wavy hair'. I've changed the phrase to 'Won't Drive Here' since he always complains that our Field Day is too far from his OTH, hi. Sorry Chuck!

George #3030 was incorrectly listed as VE3MMO, his listing should have read: VE3MMQ, Waterdown ON/G0TUA Hythe Kent (W4HZD)

Meet Stephanie KC5VGQ

Hi, I am 15 years old and am in 10th grade. I was first licensed in July of 1996 as a Technician. On Sunday, June 1, 1997, I passed my 5 WPM code test (making me a Tech +) and the General written test. I operated on the 40 meter Novice/Tech+ band for about a week and a half, then went and passed my 20 WPM code test on June 12. I currently hold a General Class license and I hope to change it to Extra in the near future. I love CW and spend my time on the 40-, 30-, and 20 meter bands. All the hams I've talked to have been very nice and encouraging. My only complaint is that when I send my name, many hams drop the "ie" in my name and call me Stephen! I have to go back and tell them I'm a YL and send my name again.

My Dad is AD5X - FISTS #2905 and my Mom is N5UPT. I'm looking forward to receiving my own FISTS number 73 de StephanIE, KC5VGQ

Meet John K3HLU

I've been in FISTS for 6 months, but just getting around to introducing myself. I have been a ham since 1958. First KN3HLU, then K3HLU. Became TF2WKT in Iceland from 1968-1969, W7JEF in Montana in 1971, W4MPC in Florida, then N4JS in the first round of vanity calls...back in 1974!

Operated a lot of VHRF/UHF for 10 years in Mississippi. I was pretty inactive after moving to NJ back in 1986. Back in December, my interest in QRP was awakened, largely by the QRP-L list, and I went on an operating, kit-building splurge. Built a Sierra, ARK4, OHR400, SW160, GM17, WM20, and of course my Emtech (FISTS) NW80, which incidentally, is a great rig! Recently, been working on a couple of the little SST rigs.

I build these things on the graveyard shift. Gives me something to do during those log hours between 1AM and 5AM, when it's quiet at work. Latest project is a CPCW-5 (Cakepan CW-5 watt) TUBE type (6C4-6AQ5) rig, and a matching superregen receiver! These are from Vintage Kit Company. (Am I allowed to mention that they give a 10% discount to FISTS members?)

Anyway, look for me on the CW bands, always QRP. 73 John L. Sielke

Thanks for sending in the biography John, and FB on the Vintage Radio Kit Co I've been meaning to put info about their Cake Pan Radio Kit in the Keynote Vintage Radio Kit Co is owned by FISTS member Carl WBIEYE

The Cake Pan QRP Rig Kit

The Cake Pan is a vintage replica "no frills" basic 5 watt, CW-only design that you build in a fully punched cake pan. It has individually packed components with easy to follow instructions and all stainless steel hardware. It includes a custom power transformer and crys-

tals. I haven't tried one, but the literature says you can build it in just three evenings.

For more info, contact them at 427 North Main Street, Sharon MA 02067. Phone is 617-784-0847. An SASE would be appreciated.

Response to Popular Communications Editorial

Bill WA6YPE wrote to PopCom in response to an editorial by Harold Ort that said "ham radio is only a hobby" and compared CW to police carrying muzzle loaders, among other things. Bill writes:

...You contradict yourself by using the comparison of police carrying muzzle loading weapons and stating that the U. S. Coast Guard has even dropped CW. I can state from experience, being a former Coast Guardsman who enjoys sailing, muzzle loader shooting and ham radio. Neither the police nor Coast Guard communications could be considered a hobby.

In order to enjoy hobbies where your actions could easily infringe on, disrupt, or threaten the safety of others, it is imperative that you acquire and practice some basic fundamentals. Gun enthusiasts with the latest state of the art rifles and scopes often consider the muzzle load shooter with open sights the cream of the crop. However, if that same muzzle load shooter fails to practice the basics of gun safety, he is shunned by all.

The hobby of Sailing is surely not state of the art or fast compared to other methods of transportation over water. Sailing takes more than just going out and buying a boat, turning the key and taking off. It required skills and effort. However there are many that would much rather just go out and buy all the latest fancy electronic navigation equipment rather than learn the basics of seamanship that will save their tails when they become de-masted and de-antennaed in bad weather. The sailing fraternity takes a dim view of those that won't take the time and effort to learn and practice basic seamanship and basic boating safety.

The hobby of Amateur Radio is not intended to be state of the art and like other hobbies it requires effort and perseverance to gain the basic skills.

One of those traditional basic skills is CW. It allows anyone, anywhere, no matter what their economic status or language to communicate via radio. It is the basic form of communication that will make it through when all others fail.

Is it any wonder that the majority of the ham community feels strongly compelled to maintain the standards of learning and demonstrating the ability to practice the basics of the hobby? Hams, like the skilled enthusiasts of any hobby, have little respect for those that would rather cry about the fact that they just can't buy their way in and haven't the self discipline to take the time and effort required to learn the basics. Thanks for your time. William E. Smith WA6YPE

QRP With John Shannon K3WWP

The last two columns have generated some comments. KE3FL, Phil pointed out that I used MW instead of mW in referring to my QRP. I didn't catch that in my proofreading and my spell checker in Word Perfect doesn't know the difference between Megawatts and A couple of you want us to review milliwatts. HI other QRP rigs in the Keynote besides our own FISTS kit. I talked to Nancy about it, and we will do it. Nancy will include reviews as space permits in the Keynote. In fact, I have asked those of you who wanted to see other reviews to write up a review of your favorite rig and submit it to Nancy. Bob, W3CW has already said he would take a shot at it. If anyone else wants to try, just write about your favorite QRP rig in the form of a review, and send it to Nancy.

This month my topic is 'pure' QRP Dxing or Dxing with 5 watts ERP. Some of the things I say will be different for the QRPer in a superb location with a huge antenna farm. Also the info I am presenting is mainly from the USA side. I know we have many foreign members, who to us in the USA are the DX. HI

I never thought that QRP and DX could mix unless you had a big antenna farm in a great location. However, over the past 4 years I have proved myself wrong by making over 1000 DX contacts in 127 countries. I believe that anyone with a minimum of effort can get the basic DXCC award using 'pure' QRP. I hope the following tips help you achieve that goal.

The most important thing to remember about DXing, whether it be with 'pure' QRP or a KW into a stacked array on a 200 foot tower, is to LISTEN before you do anything. Of course, before you can work the DX, you have to be able to hear him.

Once you can hear the DX station, now you listen to see where the DX is listening for replies. If you hear him work a station right on his frequency, then you know he's listening there. Zero beat him and get ready to call, but again don't jump in too quickly.

Listen to find out the pattern of the DX station's exchange. Sometimes after the exchange of info, the DX station will just say TU, and then start listening for replies. Other times he will send QRZ?, or QRZ? de X2XXX, or just X2XXX. Some stations send dit dit. Whatever it is, learn when the DX station is done with a QSO and ready for the next call before you jump in.

Now you are ready to try the station. When that tell-tale signal comes from the DX station, send your call

once, nothing else. If you are fortunate, the station will answer you by sending your call and a signal report then K. You say TU and give him a report, and K. He will acknowledge you and move on to the next QSO. Very quick, like lightning, but you now have a new DX country in your log.

Of course that is the ideal situation, and it is not going to work that way every time, even for the most powerful station in the world, and certainly not for the 'pure' QRPer. Not to say it doesn't happen, though. A few times I have beaten out a fair sized pileup to work a DX station. Why? Sometimes it is propagation favoring you, but there are also things you can do to help.

Be sure your signal is as clean, crisp and your keying is as close to perfect as possible. DX stations often mention that it is not always the strongest signal that is easiest to hear in a pileup, but often a weaker clean signal with perfect keying is easier to copy. If you have a memory keyer, use that to send your call. It is possible to get nervous when trying for some rare DX, and be sloppy sending even our own call.

Another thing that helps at times is to delay for a second sending your call so that the last letter or two extends past the main buzz of the pileup. In my case, the DX station would then hear the WP and send WP? Then I send my call again, and make the QSO. That is assuming there is no other WP in the pileup, and everyone acts properly and does not transmit again if their call doesn't contain a WP. And we know the odds of that. Generally anyone who has a W in their call transmits, everyone with a P transmits, and others will transmit even though their call has nothing close to a WP in it. The best of the DX stations in this case will send WP? KN KN and keep doing this until everyone else shuts up except the WP station. If a DX station does this often enough, he can really take control of the pileup and make it manageable.

Pay attention to whom the DX station is working if you keep calling him without an answer. If he is working one W6 after another, and you are a W1, he may have his beam pointed to California at the moment, or propagation may favor the DX to California path right now. Note his frequency or store it in memory and look for someone else. Come back later and see if the DX station is working stations in your area. If so, jump in and try again.

Next month split frequency, DX rag chews, etc. I'm out of space. Visit my web site at http://www.geocities.com/CapeCanaveral/3852 for more QRP & CW info. -30-

Looking for:

Other FISTS who are using or have modified the Ten Tec Century 21 rigs. Pse contact David Tucker NU4N,1500 Massac Church Road, Paducah Ky 42001 Tel 502 554 0903

Dave says he had a real nice qso with KA1OX/QRP on 20 meters. He was running 5 watts and Dave was running 3 watts with the OHR 20M EXP II. Dave comments that the bands seem to be getting better every day. 20 & 30 meters seem to be staying open later now. Hope this is the start of Cycle 23.

Gordon G4ZPY is looking for a pair of EX WS American Naval Earphones. They are pale green in color and usually have a Boom Mic attached. They completely block out all outside noise. Gordon's hearing isn't as keen as it used to be and he is quickly distracted when on the Key (one of the problems of age, he sez, HI). If you can help locate a pair of these headphones reach him at Gordon Crowhurst, 41, Mill Dam Lane, Burscough, Ormskirk, Lancs, England L40 7TG.

Barry Minsky W2BJ/KA2MB is looking for a *Mercury Paddle*. His address is 21st TAACOM Unit 23203 (CHP), APO, AE, 09263.

Smokey's Engravings

In the May CQ there is an article about FISTS #3128, Smokey KN6AE. He does some fabulous metal engraving, specializing in customizing Morse keys.

Becky KG6GUH knows Smokey and says: "I have seen lots of his work and can say it's quite amazing! He has engraved my om's key - with gold inlay! He will be engraving mine key soon and I will send you a picture. I wanted to share his name and number in case there are other FISTS interested in having some engraving done to personalize their keys. His name and address are: Smokey Gaines KN6AE, 640 E Bayan St., Ontario, Califoria 91761 (909)983-8800

"I also wanted to say what a great addition he is to our Fists CW Club. He is a symbol of what we stand for. When I was learning code, he was always there with a encouraging word. After I received my ticket he walked me though my first CW QSO. Patiently, fully understanding my nervousness, and doing his best to make me relax! He encourages good code, not fast code, and has also started a code practice net on 10 meters, 28.340 from 2300-2400Z Monday - Friday. He is truly a shining example of what an Amateur Radio CW Operator should strive for.

73 Becky KF6GUH."

If We Didn't Have It, We'd Have To Invent It

ARRL's recent ill-fated Novice Enhancement program reaped minimal results. Enhanced Novices are scarce, indeed. If "now You're Talking" failed to inspire benefits, "Now You're Talking Even More" is even less than thrilling. Current "Everybody Enhancement" proposals appear to be outdated and counterproductive maneuvering toward issuance of ham licenses to every citizen at birth, replete with a vanity callsign.

If noncommercial interests below 30 MHz are to survive in the looming future, narrowband techniques must apply. Extending broadband emission authorizations in our already pinched HF assignments is reverse LRP, long range planning, for the past century's sparsely populated spectrum. When the teeming multitudes in China, India, etc. inevitably join recreational HF radio per capita, one need not be a rocket surgeon to foresee ionospheric bedlam. Add to this the factor of surging radiational noise pollution.

Amateur radio is fortunate to have available a simple, effective and economical tool for the coming crowded HF millennium. Manual radiotelegraphy has served us remarkably well through all the years while other emission fads come and go. Sheer logic requires us to appreciate and preserve CW for continued worldwide Communications Enhancement.

Rod Newkirk, W9BRD #1782

Code Buddy Feedback

I've been a Code Buddy since the end of March, helping Claude, **KO6RU** get up to where he'd like to be with his CW. It hasn't always been easy, but it's been rewarding and fun, and the regular QSO's have been as helpful to my sending and copying as I hope they've been to Claude.

Anyone who has a little time to spare, whether it's to improve or to help a fellow Fist improve his or her code skills (or both) should give it a try. The best part is that you'll make another good friend on the bands. If this makes it into print it will be after the Sprint, and if I worked you, thanks! 73 de **KQ6ES** John #2406

My first code-buddy experience was successful. My "student" has just informed me that he now has the confidence to make CW QSO's with other hams.

I'm happy that I have helped him..... I'm sad because I'll miss our CW QSO's and our other contacts via the phone and mail. Once again, because of FISTS, I have met a nice person whom I consider my friend. 73, SAM **KB8OOM** #1582

News and Views From FISTS Members

From Paul KC5RGQ: Glad to finally get my application into FISTS. I received an application from AC6QO back in January '96 and misplaced it. When this one came from K9JXW, I sat down and completed it right away. I hope to be an active member.

Shortly after I first got my license back in October of 1995, I managed to obtain a rather badly broken right arm. Not wanting to put off getting on the air, I learned to send and copy left handed. I still use the left hand on the paddles. Started learning the straight key with the right hand in time for SKN this year. Just passed my 20 WPM test, on the first try, this last weekend and I'm looking for the new Extra ticket to arrive in the mail soon.

I'm a member of a small club of CW enthusiasts here in Alamogordo. Most of us like to get on the air on ten meters and just spend time chatting, much as we would if we were using the mike. We even work MCW over the club 220 repeater with our home brew rigs! This conversational CW practice is great as you develop vocabulary not normally used in a QSO. My transition from 5, to 13, to 20 WPM was comfortable with no conscious effort to build my speed. Guess I'm just repeating what everyone says, that the best way to learn CW is to get on the air and use it!

My goodness Paul, learning to send left-handed with a broken right hand certainly shows dedication! That's amazing! Welcome to FISTS!

From Roland KG2LO: I have been having loads of fun meeting new friends on the FISTS calling frequencies. Folks on the CW bands are the greatest! I look forward to receiving the FISTS newsletter and read it cover to cover. Keep up the good work! Hope to meet you on the air waves some day. Take care es TNX. Thanks for the kind words, Roland! I'm glad you are enjoying being a FISTS. Congrats on the upgrade to Advanced!

From Ken AD4OS "The Voice of Purdue University": I was wondering if you know if there is a FISTS group getting together for field day in Chicago area. I have an internship with Motorola's cellular division in Arlington Heights this summer, as a rf engineer and will be away from home during field day. I would like to get together with other cw buffs. If there are none I am sure Motorola has their own club. I can be reached at my email address kwarren@ecn.purdue.edu or callbook address. I not sure of a phone number yet.

Wouldn't you know I didn't get this in the KeyNote in time for FD — but maybe you can get a FISTS group together to operate the FISTS Anniversary Special Event Congrats on being elected Pres of the Pardue Ham Club, Ken FISTS CW C

From John KC1MI: I thank all of you for pulling for me during my hospital stay and what turned out to 2 major operations. Received some new plastic intestinal tubes and needed more emergency surgery in my throat. Guess the surgery in the intestines did not go 100% because a priest was called in to administer last rites. I was told ahead of time however that this is a pretty rare operation but my only out. So being the stubborn ham that I am, I said "lets get on with it, I'm no good this way".

Thanks to all of your thoughts and prayers I made it. I am house bound and in serious pain but the pain medication helps a lot. Am very weak and have lost lots of weight which I need. Very weak so spend most of the time relaxing in the bed and eating like a horse. The doc won't let me exercise yet but pretty soon, to build myself up again. I'd like to thank the club publicly for their thoughts and prayers. I really got a kick out of your card, it really cheered me up. Well till next time, my visiting nurse just said "back to bed" 73/88 to all for now, John KC1MI We're glad your operations were a success John, and hope you have gotten your strength back and we hear you on the air soon! You're in our thoughts.

From Alan WA0FAX: Another Sprint has come & gone. Sure makes a nice little contest for a Saturday afternoon. Seemed to be more FISTS this year too. 40 meters wasn't bad, 20 seemed kind of flat. I didn't hear anything on 10 or 15. I also called CQ on the 40 meter novice band until I was cramped, but didn't get a novice/ tech response. Where are all these hams hiding. All I work up there are other guys trying to work novices. No wonder they want to give these bands away. I guess the night time is far more active tho'. Did work a Russian FIST right at the very end. Worked FISTS that I have talked to before, some many times, as well as many new ones. The FISTS QSL buro will be busy for sure, which is another good benefit. Anyone who wants to participate in an easy contest, meet new FISTS or fill in the blanks their Century Award sheet - get into the FIST activities. That's what it's all about.

Yep Alan, that's what it's all about! The Sprint 15 alot of fun. The results are elsewhere in this issue of the Keynote, along with more comments.

From Alan K6SRZ: Is there a FISTS calling frequency on the WARC bands? In California, 14.058 is jammed with all manner of QSO's and late at night when I do much of my operating, 7.058 is obscured by Asian SSB. The top end of 30 M is often clear.

This has been discussed quite a bit, but no one seems to be able to agree Let's try the top end of 30 and see what happens, OK? Let me know how it goes.

FISTS CW CLUB NEWSLETTER

ISSUE 7 1997

From John KG9HE # 2501: Here we are in the mountains of east Tennessee, or as the old timers call it, Upper East Tennessee. The move went off without a hitch, and all of my radio equipment, and computer arrived in working order. Couldn't wait to put the shack together and get on the air.

Had two brand new Radio Works antennas and four ideally located trees, so with a little help from my wife, my trusty slingshot, and a local ham, I have them positioned. The Super Loop faces northwest, and the Carolina Beam faces northeast. Amazing what a little elevation can do.

My first week resulted in numerous early morning contacts into Australia and New Zealand on 30 meters, think I had a few Japanese stations thrown in too. Didn't get any FISTS #'s for my first Century Award though. Wonder if we have members down under?

Second week concentrated on European and Mid-East paths. Again no luck on the Century Award. This surprised me because I have had a number of FISTS contacts in England and Europe and know there's a bunch over there. These contacts, including one in the Ukraine and one in Macedonia, were on 20 meters near the FISTS calling frequency at around 22:00 utc.

The local Amateur Radio Club is very active, involved in many local events. Many trying to upgrade, and I hope with the presence of a CW nut, they will be fertile ground to plow for FISTS.

Thanks Nancy and the group for a great club, and special thanks to my friend Bob N9UUI FISTS # 2402 for the sponsorship and periodic skeds on 30 meters. If anyone is interested, especially county hunters, look for KG9HE, FISTS # 2501. I'm usually on 30 meters early and late, and also 20 meters calling CQ FISTS on frequencies 10.110 and 14.058. I may be the only active CW operator in the county. From Johnson County in Upper East Tennessee, 73 John.

FB John, I'm glad you're move was successful and you're back on the air so soon! We do have FISTS in New Zealand, but I don't think we have any in Australia yet

From new FISTS member Ernie KD6VMY: Just a note to say it was a pleasure having a QSO with a gentleman op Mr. Branca K2SB...There is a difference with a FISTS op, I have noticed...they never hurry the QSO and always say a great thanks, well wishes, great conversation and an interest in the QSO. K2SB did as promised, followed up with a form for FISTS and no hard sell -- only kind words for FISTS and members. Welcome to FISTS Ernie, there certainly is a difference when you work a FISTS member on the air - one of our mottos (coined by Don KC4UUG) is "when you work a FIST, you work a friend" ISSUE 7 1997

Bunny **AE4P** sends in his renewal with the note: Just wanted to let you know how much I enjoy the FISTS Club members. I qualified for my 2nd Century Award today!!! Finally got to talk to Irene **WO8E** just before the Spring Sprint began.

Thanks for the renewal bunny, and congrats on your 2nd Century. I'm still working on my first, believe it or not!

Dan AE4AI writes: I am pleased, very pleased, to be a part of FISTS. I send copies of the application/info sheet out with every QSL. It is an honor to belong to such an outstanding group of decent hams. Thanks to you and all the other great ops who work to make FISTS possible. I am a single parent and see to have little time for radio, but when I do I head for 7.058 or 14.058. FB Dan, I'm glad to hear you are enjoying being a FISTS member. Being a single parent must make it hard to find time to get on the air. I've never had any kids, but sometimes I feel like a mother hen with FISTS. Maybe that's why I rarely have time to get on the air, hi.

Bob N9UUI sends in his renewal and says FISTS is the best club he's been in yet! He's enjoyed meeting nice people like N3XJQ and AC5GP on the air and hopes to meet many more.

From Gene **KI0FM**: I'm sending in my renewal for another year, thanks for last year. Have been off the air for 7 months now but should be back on the air soon. Enjoy all of the articles in the newsletter. I want to thank Scott **W3CV** for the article about Emtech. I purchased a complete kit and should be on the air shortly QRP 40 meters. This is one nice kit, my first kit. **K3WWP** John Shannon's articles got me interested in QRP, keep up the good work. I love the FISTS CW Club. How about this, "Try the rest, then go for the gold and join the best; FISTS CW Club."

Thanks for the renewal Gene, when you get your Emtech built drop us a line and let us know what you think of it!

I was sorry to read this letter from Carl WK4CR (ex-KR4VQ): I won't be able to renew my subscription this year. Am not doing too much radio lately. Guess ham radio was getting to be more important to me than my family and was overlooking a few things so I better get my act together. Maybe someday I'll be back, but for now I will call it quits. If you hear from any of my friends like Don KC4UUG, Maggie WP2T or Scott W3CV pse say hello for me and tell them that I always remember them. So long for now, God Bless! Hope you work things out and we hear from you soon Carl; We'll miss you on the air!

From RJ (Bobbi) KB9GKX: Thus far, I have managed to work one FISTS member; given a limited amount of activity, low power, and my closest crystal being 2kc high (7060), that's really not too bad! He was the first QSO on my recently-completed 1930's Jones Regenerative Oscillator single 6L6 transmitter, about 10W out. Did succumb to temptation and set up the HW-9 yesterday—looks a bit funny among all the 1930s-50s gear but it's more frequency-agile and less TVI-prone. Would probably drive an 807 pretty well, too! You must have a fascinating shack, Bobbi Thanks for the history of CW terms article, which I printed elsewhere in this months KeyNote. I'm sure many will enjoy reading it.

From Lou NB2T: Hello, I have been a member of FISTS since Feb. I have just applied for my Century/QRP award. In the three months it took me to work over 100 points, I have never had so much fun getting back on CW again. I joined at the request of a dear friend, John WB2EXI. John and I operated RTTY for many years together. But he has always been a CW operator.

Your group of fine CW ops are always there to help. I have brought one ham into the FISTS group and I think another one will follow, since he asked me for an application. I still believe very strongly that CW should remain as one of the requirements for getting on HF. I have voiced my feeling to parties concerned at the League, and other people that CW is the only way to show any newcomers into this fine hobby. Too many changes in this hobby are not helping, but hurting.

The FISTS group are showing the right way to get into the hobby. I can't believe that over 500 people have joined this fine group since I did. You must be doing something right, CW Forever. Good CW operators show the way. 73 Lou NB2T
FB Lau thanks for letting us know that you're

FB Lou, thanks for letting us know that you're enjoying your association with FISTS. FISTS members have good reason to be proud of themselves and our club, I think we set an excellent example of CW operating on the bands! And Congrats on getting your Century/QRP in only three months—that's remarkable!

Ken W6NKE sends in his renewal for two more years with the note "This will cover me for a few more years. I'm currently 77 and hope I will have to pay for further renewals! I read your debate with W5YI with great interest. You hit the nail on the head! The elimination of the code requirement is strictly based on greed (money)! The same applies to the manufacturers of ham radio equipment. Profit is the bottom line and the good

of ham radio is way down their list of priorities. Unfortunately the same basis, profit, exists in some of the major ham radio organizations. I feel FISTS is the major stronghold of preserving CW as a requirement of obtaining an HF license.

"I've been a ham and commercial operator for 16 years. There have been many changes during that time. However, the move to eliminate the code requirement for HF license privileges is the most frightening. It will open Pandora's Box and they'll never get the lid back on!

"I've been able to work a number of FISTS members around 14.050 kHz but haven't encountered any on 40 meters. What frequency do members hang out on the band? You'll find FISTS all over 40 meters, Ken, particularly on the OS8 area — or try the Novice band around 7.108.

Some thoughts from Jack WB2FXK: 'Everybody asks how many FISTS I have wrkd - no idea, but nearly 400 QSL's so far. Probably 50% on your .058 freqs. When I hear someone calling CQ FISTS or some other club I always think they want to QSO a member of group, so I very seldom call CQ FISTS if I just want to QSO and I catch a lot of non-FISTS ready to join up. (Jack is one of our most successful "recruiters"!)

" I had a great time in Dayton wid everyone but you and Irene (WO8E) really make the weekend. I never remember all the FISTS I met, hi. Great QRP column but think they should give US a lil (LOT) credit for digging those weak signals out of QRM/QRN/QSB, hi! Don't let us get in the habit of knocking other modes, etc of Amateur Radio to make CW look better.

"I'm teaching code still and believe getting on the air and working stations is the best, easiest and most fun way of learning code. Some people can enjoy tapes and W1AW but I never did. Also not interested in how fast you or I can copy, just so you can copy me and I can copy you thru QSB, etc. Probably most QSO's run under 25 wpm, so I'm in this hobby to communicate and enjoy. Thank goodness a lot of hams have slowed down for me over the years so I could enjoy and have stayed with it.

"Thank you for being a FB Rep for FISTS in the debate with W5YI. You sure did a great job, professional and did not get off the target. I sure ramble a lot, but wanted to stress that we appreciate you very much." Thanks sooooo much Jack, I really appreciate your kind words! Next year in Dayton, don't forget to check into the FIST Booth before you go flea marketing so we know you're there, hild this year, Jack didn't check in with us until late Friday and everyone was asking "where's FXK??" He had us worried!

Bud WA2BQI has been quite 'radio-active' in 1996! He has over 85 certificates and awards, but says his FISTS Century Award (#174) is the best looking certificate by far. His results for 1996 are

- 1. WAS 2. WAS-40 (last state needed was DE, and wudn't you know it, he was a FISTS member K3AS!)
- 3. FISTS Century Award
- 4. 2nd place out of state for NC QSO Party/97
- 5. 1st place NY for TN QSO Party
- 6. 1st place NY for IL QSO Party (2nd yr in a row)
- 7. 3rd place NY for WA Salmon Run
- 8. 1st place single op single 40 mtr ARRL DX 'test
- 9. 1st place operating 96 Field Day class 1D
- 10. 1st place NY for NB QSO Party
- 11. 5th place NY for WVA QSO Party.

Bud's comments concerning the CW Debate is "STOP YAKKING - START CLICKING"

Bob W1FHP sent me a sample of the QSL card he sends out for his club CW contacts - it has a sketch of a hen with headphones sending with a straight key and says "from the Hen House Gang" and of course, the FISTS logo. Very cute!

Gordon G4ZPY, of G4ZPY Paddle Keys International fame, sent along a very nice letter, saying that he's hearing very good reports on how well the NA FISTS is doing. Gordon says he tries to get on the air most evenings (UK time). He was off the key for about 10 years because he just could not find the time, but Brenda (his wife) insisted that it was time he got back on it. He says he "was scared stiff at first, because my CW had sadly gone down hill. I am getting back up to speed slowly now, and can go about 20 on a good day. On a bad day I'm down to about 14. It is embarrassing when people expect you to be able to tx at about 30. I don't think I shall ever get back to that speed, because my poor old brain won't work that fast these days. My keys will not be collectors items for a while yet. I am not ready to "cock my toes up." Thanks for dropping us a note, Gordon And FB on your not being ready to "cock your toes up" - I don't have one of your straight keys yet, hi

PS: We have applied for, and received, the Domain Name of "fists.org". Consequently, the URL of our Web Page will be changing in the near future to a more simplified address, probably "www.fists.org". Lee N9NVV is working on switching the systems over to the new address. We'll keep you posted on the progress and let you know when you can start using the new address. The old address will have a link page, so people still using the old address will be able to find the new page.

CW In Canada

Here in Canada, we have a problem that doesn't seem to have a solution. There is a very small percentage of Canadian hams that belong to RAC, I think it is about 25%. RAC officials have decided, with no debate, that their job, after elected, is to "Make decisions" on behalf of Canadian amateurs. Their decision on code.. is no code. They have closed the books on the issue and are not interested in any sort of democratic process to deal with this issue.

Sadly, myself, and other hams have found that there seems no way to deal with this issue, without bypassing RAC, and lobbying our federal radio department, Industry Canada, directly.

IC has responded with dismay, and has temporarily halted a transfer of powers to RAC in regards to license administration, etc. RAC thinks this is a terrible thing, and do not see this as a lack of confidence in there arrogant ways. (They believe this is strictly a financial thing). I do not know where this is heading. Insight from you or anyone else at FISTS would be much appreciated.

There is no official survey of the approximately 47,000 Canadian hams on the issue. But straw polls continually indicate that the retention of a CW requirement is favoured.

It is very unfortunate for all of us that we have such a narrow focused and undemocratic group as RAC. And, of course, their view on the code requirement is disheartening.

With any luck, they will pay some attention to the ground swell of opinion in the USA about this code issue. Thanks to FISTS is due in no small measure!

Jeff Smith VE1ZAC # 2048

Novice Band Calling Frequencies

I think we all agree that we need more activity on the Novice Bands - Arnie KT4TK writes in and say: "We as Fists, always talk about trying to help others learn the code. That's a great goal and I think we should continue to do just that. I do think, however, that we need to have specific calling frequencies within the Novice sub-bands like we do in the General portion of the bands. The following are my recommendations:

10	meters	.28.108
15	meters	.21.108
40	meters	.07.108
80	meters	.03.708

Let the CW amateur community get to know these frequencies and they will start to be used.

I didn't consult a band plan to get these, so hopefully I didn't step on someone's toes (hi). Arnie-KT4ST"

MONEY, Money, money

With all the new FISTS joining up, there are probably some questions about "Where does all the subs money go?" As you might imagine, most of it goes toward postage and printing. Each new member gets a certificate and complete set of photopages (if you haven't gotten yours yet, don't worry - I'm working on it!). The certificates cost about a quarter and the package costs .78 cents to mail.

In a typical month we spend .55 for a KeyNote (24 page); .10 for a single sided photopage and .27.7 for postage. Add that up, multiply by 12 and it comes to about \$12.15. So, 80% of the subs goes directly toward the newsletter and new member packets.

Sending out samples and applications to prospective members gets VERY expensive at .78 apiece for postage. In fact, we are going to stop sending out sample Keynotes to those who do not include sufficient postage or a green stamp. I hate to do that, but it's eating us out of house and home. Joe KK5HR is doing a fabulous job keeping track of all this and sending out the requests for FISTS information.

From now on, when we get a request for information, Joe will send out one of the tri-fold brochures like we gave out in Dayton. It tells quite a bit about FISTS, includes an application, and best of all only costs .32 to mail. That will help keep expenses in line, as we get at least 50 requests for info a month.

The PO box, bulk mailing permits, Web page DNS, Century and other awards, and the QSL Bureau are paid for by the subs money.

The buro is supposed to be self-supporting, so PLEASE include some stamps when you send in cards or a dollar once a year if you send DX cards. DX postage is at least \$5 a month, which adds up to over \$60 a year. If everyone who sends cards chips in a little it would be appreciated!

The member roster is published twice a year (Jan and July) in the Keynote. The new FISTS are listed in the Key Note each month, so you can keep your list up-to-date by keeping track of these. If you need a list pse send a dollar to defray the expense because the membership roster is 10 pages long now. The list is also available on our Web page - the space for which is donated by Lee N9NVV, our NA Award Manager.

Other costs we incur are the Presentation materials We have three sets of them and include sample Key-Notes and applications. We also have a small investment in audio cassettes for our Talking KeyNote which is sent to our blind FISTS members.

Having the booth at the Dayton Hamvention has been a big boost to FISTS. We are very grateful to the Hamvention people, who have given us the equivalent of a \$500 booth for the last five years! But, that doesn't

mean it doesn't cost FISTS anything. We pass out a thousand sample newsletters, applications and info sheets at the Hamvention each year.

And there is the hardware that keeps FISTS running. We also need software for making the KeyNote, keeping track of the finances and members, as well as paper and ink for the printer, stamps, and phone calls.

Whenever we have any excess in the bank, I "reinvest" it in supplies. Buying things like patches, pins, stamps in bulk lets us pass the savings on to you. These items are sold at cost, so there isn't any profit involved.

I've been asked about Life Memberships. I like the idea, but FISTS is growing so rapidly it's hard to get a handle on what the projected costs are going to be over the next few years. I'd hate to commit to a price for a onetime Life membership, then find out we don't have enough to run the club down the line. We haven't had a subs increase in our 10 years - in fact it's been reduced. Original FISTS may remember that subs used to be \$17.50. We really are operating on a shoestring, and I'm doing what I can to keep the costs down.

All FISTS workers are strictly volunteer - no pay, but I'm sure I speak for all of us when I say that the satisfaction of seeing FISTS grow is the very best "perk" we could ask for!

PSE QSL! by Bill Roberts, K7UF #3122

I enjoyed Marty Reid's #2668 letter. It was ten years before I realized there was a mic jack on my rig. Marty's letter brought back memories of all night CW sessions as a Novice on the 40M band. I still have my first PR crystal, but now it's mounted on a wall plaque. I spent many sleepless nights worrying if the FCC could tell if I was running 90 watts from my Globe Chief.

That was over 30 years ago and I still find myself in the middle of the 40M Novice band working the new operators. If it wasn't for some of the Generals helping me improve my code skills I would never have made it this far. The Novice was a one year license and not renewable. I have made it a point over the years to continue the practice of helping the new operators. I may dose off between the letters now and then, but I remember I also started out the same way.

It was always an unwritten rule on CW to send a QSL card. No self respecting Ham would ever think of asking for a SASE When a card was received, a card was always returned. Of the last 35 cards I mailed, I have received only 12 in return. Come on guys get with it. CW operators are few and far between, perhaps a dying breed if others get their way. Lets keep our fraternity an elite group of radio operators. Be proud of your call and your stature, send out your QSL's. Help keep our ranks strong; professional and courteous. We are what Ham Radio is all about! Bill K7UF

Product Review: MFJ-9420 20-meter QRP SSB Transceiver by Phil Salas - AD5X

Oh no. What do I need another radio for? Well, I found a great deal on a brand new MFJ-9420 transceiver with microphone, CW adapter, and matching power supply. The price was too good to resist, and I'd heard lots of good things about these rigs.

The MFJ-9420 transceiver is a small (6"X6.5"X2.5") light (2 pound) 20 meter SSB transceiver that puts out 8-10 watts PEP. It was designed by Rick Littlefield who has written many QRP articles over the years. It has a very simple layout which includes few controls: on/off, tune, main tuning, and audio gain. The "tune" button puts out a carrier so that you can adjust a separate antenna tuner or check VSWR. The 9420 uses an analog tuning dial. However, I found this tuning dial to track accurately across the band. The receiver incorporates a 6-pole crystal SSB ladder filter that appears to be very sharp. It also includes a built-in speaker that delivers plenty of audio. The 9420 only draws 100 milliamps on receive, and 2-amps maximum on transmit so you can run it a long time on a small gel-cell. If you think about it, 10 watts PEP is only 10 db (about 1-1/2 S-units) below the typical 100 watt transmitter. MFJ helps compensate for this with an extremely effective audio compressor which keeps your average transmit power higher than normal. This results in an extremely punchy audio signal which elicits good comments from stations that you talk to. Contacted stations are always amazed when you tell them that you are running only 10 watts. As an example, on March 22 I worked ZF2JC/ZF8 (Little Cayman Island) in the middle of a huge pileup. He answered me on my third call and told me I had an honest 5X7 signal!

Along with the 9420, I also received the CW adapter. This helped cinch the deal on this radio since I spend 95% of my time on CW. The CW adapter is a small plug-in circuit board that easily mounts on pins on the main board. Three screws hold it in place. A CW on/off switch and a 1/8" key jack which are mounted on the sub-board line up with holes on the back panel. Circuitry on the sub-board unbalances the balanced mixer to get a carrier output, offsets the carrier 700 hz (this is adjustable), provides a 700 hz sidetone, and provides an adjustable break-in delay time. There is also a variable capacitor so that you can rezero the main tuning dial after the CW adapter is plugged in. The dial has two scales: the outer scale covers the 14.15-14.35 Mhz phone band, and the inner scale covers the 14.00 to 14.15 Mhz CW band. The CW on/off switch on the CW adapter changes the tuning range between the two.

Since this is primarily an SSB transceiver, features such as full QSK, RIT and a narrow filter are not provided. However, the CW performance is quite ade-ISSUE 7 1997

FISTS CW (

quate. Incidentally, while 10 watts PEP on SSB is considered QRP, only 5 watts CW is. So, I am not really operating QRP when I use this radio on CW.

I also have the MFJ power supply. This is simply a 14 VAC wall transformer, and a small box which contains a full wave rectifier and a 12-volt 3-terminal regulator with three diodes in the common leg which gives a 13.7 VDC output. A 3-terminal TO-220 regulator is only rated at one amp so I was curious as to what a reduced output current would do to the 9420. The power supply didn't start limiting until the output current started to exceed about 1-1/2 amps. Running the 9420 from a high current power supply, the CW output power is 10 watts. Running from the tiny MFJ power supply, the output power was 8-watts. Not bad! There is now a 78S12CV TO-220 3-terminal regulator that is rated at 2-amps. I'll probably give this a try pretty soon.

I do have a few criticisms. First, there is a deposited (on board) printed circuit trace that is the input fuse. If you ever hook up power backwards, you will blow this trace on the pc board. I am going to put an in-line fuse in the power cord and bypass this fuse with a buss wire. Also, the reverse voltage protection diode is a IN4001 which is only rated at one amp. Since the pc trace/fuse can handle at least 2 amps, the diode may open up before the trace does if you connect power backwards. A three amp diode in this position along with a 2-1/2 amp fuse would make more sense.

Next, the 9420 doesn't have a headphone jack. This would not only be handy for quiet listening at home, but it is also necessary if you want to use one of those CD-to-tape player adapters to pipe your audio through your car stereo system. The 9420 has a balanced speaker output that is not referenced to ground so adding a headphone jack is not as easy as normally expected. I got around this by mounting a Radio Shack RS 274-246 enclosed closed-circuit 3-conductor 1/8" jack in an enlarged hole on the back panel. This jack has an outside diameter of 1/4" so I drilled a 3/8" hole in the back cover and used a 1/4" nylon washer (local hardware store) to insulate the nut from the chassis. I just centered up the jack in the hole so it didn't touch the chassis, tightened it up, and then added a drop of epoxy to the jack to make sure it never moves.

Finally, I would like to add a narrow audio filter for CW, as well as a "spotting" switch and circuitry. There is plenty of room inside for these additions. I'm sure this will happen within a short period of time.

Overall, the MFJ-9420 is a great little rig. They show up on the used market periodically. You can get a good start on HF with this little rig when you get that General Class license, and continue to use it as a portable or mobile rig after you upgrade to a multiband HF rig.

PSE QRS

Last month, I printed a comment from Rich AC4NW, who is of the opinion that slowing down to accommodate those who can't copy faster is not good because they will never increase their skills that way.

From Irene WO8E: I would like to respond to Rich, AC4NW regarding his comments in Issue 5/6 of the Keynote. Rich disagrees with the idea that we should slow down to accommodate the new or slower operators. I believe he has forgotten as FISTS and ham radio ops we want to encourage not discourage.

Yes, it is true there are code practice tapes out there to pick up our speed. But there is nothing like the experience of being on the air. I am thankful for Don, KC4UUG and Maggie, WP2T during those early years of Don's net for keeping the net at a speed that all would be encouraged to join in. If they had not slowed up for me, I would never have had that enjoyment of taking part in the Fists net.

I hope that our new members will not be discouraged by Rich's AC4NW point of view, believe me, it is not the Fists view. Irene, WO8E

I disagree with Rich, AC4NW about not slowing down for a slow goer on the air. One of the best ways to discourage a new CW-er is by going too fast for him/her. One of the best ways to encourage as new user is to demonstrate kindness by slowing down and sending beautiful code, and to give plenty of encouragement and praise.

I do not disagree with his methods of gaining speed. I will only add one more which he seems to be against, get on the air and practice by making plenty of QSO's and join a slow net. The MSN (Maryland Slow Net) sends at your speed and then at about 1/3 the way thought all the messages they hope you're up to 15 WPM because by that time they start sending at 15 WPM and you have to request slower. Actually I always ask because even beginner MSNers can be extras & want to go faster, or they can be on their way to that General or Extra & would like double practice, one is receiving fast & one in learning about CW traffic handling.

Bottom line for CW speed? Practice, practice, & more practice. There is no substitute for practice. 73 de Phil Karras, **KE3FL**, #3117

From Bob AA2SM: I find that just about every FISTS member I have had a QSO with always strives to send at a speed which they can handle and more important they seem to concentrate more than others on spacing and using correct punctuation and "Q" signals. Although I have no problem in copy of a person sending at 30+

WPM and sending correctly, I find it very difficult to copy a person sending 10 WPM and running words together. I often go to thee Novice portions of the bands and enjoy working with fellow hams just starting out on CW. One of the biggest enjoyments I have had on CW is having a QSO with a ham and his/hers first ever CW contact.

I have had the pleasure of being a first contact on five occasions and you can almost sense the excitement of the moment for those hams. I remember my first time on CW and let me tell you, I was really nervous. As soon as I made my first contact, I wanted to say 73 and call it a day. It was my luck that after I mentioned it was my first CW QSO, he then wanted to ragchew - hi. I did have the opportunity to run into the ham who I had my first QSO with 6 years earlier. Although he did not remember me, I did express my appreciation for his patience that day, and putting up with my effort. My advice to operators just starting out on CW is to practice, practice and more practice. With that comes confidence in your sending and receiving. There are a lot of nice contacts to be made on CW and a lot of good DX with the use of a modest setup in equipment. I have an old reliable Kenwood TS 830S, an A3S Tribander and a dipole hanging in the backyard, which my XYL on occasion has tried to hang things on, hi I really enjoy reading the Keynote Note every month. Find it real interesting and sometimes read it three times. 73 Bob AA2SM.

CW ELITISTS? NO! by Bill Marsh K3AS #2164

Most of you who read this will be members of the FISTS CW CLUB, the International Morse Preservation Society. The stuff that binds FISTS MEMBERS together above all else is a love of Morse. Friendship, courtesy and helpfulness are usually part of the mix. I happen to think this is also true of the CW community at large. But there are differences too. And since we are a CW fraternity the most obvious of these are our variations in skill at receiving and sending Morse code, and operating procedures.

One of the definitions for SKILL in my dictionary is "Proficiency, facility, or dexterity that is acquired or developed through training or experience." The same dictionary also defines ELITE as " The best or most skilled members of a group."

So the best or most skilled members of the CW community become the elite, although I'll bet not many of them think of themselves that way! Even if some do, it's a far cry from ELITE to ELITIST which my trusty dictionary defines as "The belief that certain persons or members of certain classes or groups deserve favored treatment by virtue of their perceived

superiority, as in intellect, social status, or financial resources." Wow, who wants to be one of those! There will always be differences in skill levels, but vive la difference!

I don't believe there is an elitist conspiracy afoot to ignore the newer members of our hobby. The great majority of CW ops do lower their speed to accommodate the other person, without being asked, and try to be helpful in other ways. While there may be an occasional individual whose attitude would not embrace the FISTS code of ethics, they are extremely rare. Many cases of discourteous behavior are simply accidental.

So let's continue with the ham tradition of the more experienced helping the less experienced. As some-body once said "Lets all hang together or we shall hang separately."

POLITICS

Even though FISTS is not a Political Action Group, many of our members are very involved and concerned with the future of Ham Radio. From time to time, I've put articles in the KeyNote, urging you to write a letter to your ARRL officials telling them your thoughts regarding Morse Code and it's importance to you as a Ham and to the future of the Amateur Radio Service.

The only way we are really going to get our message across to the ARRL and The Powers That Be is to have a united voice and make sure our voice is heard. You may think that your vote doesn't count or you may have even given up fighting for CW, thinking that your opinion isn't important. That could not be further from the truth!

This is the time of year when the ARRL is taking nominations for the upcoming election of Officers. Some of our FISTS members are so dedicated to The Cause that they have decided to run for office themselves and fight for what we believe in

It is important that you participate and vote in these elections. Vote for the candidate that represents your point of view, not just because they've been in office forever. With the WRC-99 and other conferences coming up, we need to be sure that the people in position of influence will have the best interests of <u>our hobby</u> in mind; not who's buying the advertising space in their magazines.

You may decide that you would like to run for office yourself - anyone who has been an ARRL member for four years and holds a Tech license or higher can file a petition and run for office. (See July QST for details) We need to get more officers in the ARRL who will represent the people, not the commercial interests!

If you decide to run, let me know so I can put it in

the KeyNote. As I've said, FISTS is not a Political Action Group, but I think we owe it to ourselves and the future of Ham Radio to be INFORMED members of the Ham Community. Candidates who have Pro-CW points of view deserve our support in the elections.

Joe Falcone **N8TI** is running for Director in the Great Lakes Division (Ohio, MI, KY). He writes:

"I have decided to run for the position of ARRL Director of the Great Lakes Division. I realize that in order to ensure that Amateur Radio does not wind up as an extension of CB Radio, we all have to make sure that the ARRL acts on behalf of its members rather than on behalf of its paid employees.

"To achieve that goal, ARRL members have to vote into the ARRL's elective offices people who are not willing to sell off the future of Amateur Radio in exchange for a few more pages of advertisement in QST. Just as accommodating the use of thousands of newly purchased CB radios did not "save" CB Radio, eliminating the requirement of learning Morse code to promote the sales of thousands of HF radios is not going to "save" Ham Radio. Filling up our already crowded ham bands with thousands of new single side band signals should not be the purpose of the ARRL.

"The amount of profits of those who engage in the "business" of Amateur Radio should not be the concern of the ARRL. The ARRL should only use its resources to encourage the wise, proper and enjoyable use of our radio frequencies. In order to do so, there must be some form of meaningful licensing requirement. We have learned from the CB fiasco that if we lower or eliminate licensing requirements it will result in chaos and the eventual uselessness of the band. We have learned from the no-code licensing in Amateur Radio that those who truly have an interest in Amateur Radio will make the effort to upgrade. Already in many of our major cities, the Two Meter band is already little more than an extension of the Citizen's Band.

"I want to be elected as a Director of the ARRL in order to give that organization back to its members. If the paid ARRL employees will not support the retention of the Morse code requirement, according to past resolutions of the ARRL's Board, then I will make every effort to terminate those paid employees.

"I urge that FISTS members run for ARRL elective office in each Division and Section. I respectfully request the support of FISTS members in the Great Lakes Division. Joe Falcone N8TI"

If any other FISTS member decide to run for a position in their districts please let me know about it so we can keep the membership informed.

CW TRIVIA

by Roberta J. Barmore, "RJ," KB9GKX Most of us are vaguely aware that many International Morse prosigns and common abbreviations came over from landline telegraphers. But the details are often mysterious and some of them may surprise you.

Starting with "The End"

The prosign for "end of transmission," _SK_ (or _VA_ for the pro and military ops) seems related to nothing but it has a close cousin in the press service. To this very day, news writers put "30" at the end of a story or article to indicate the end. They picked it up from press ops, who used "30" at the end of a transmission; being landline boys, they sent an American Morse 30: didididahdit daaaah. As press (and other) landline types moved over to radio and the Continental code, they took their old familiar procedures along. Over time, the extended-dah Morse zero became a standard-length dah and the whole was sent as one unique symbol. So the next time you hear some op lean on the key at the end of _VA_, he or she might not be a lid, just an old-time landliner!

ES or &?

The familiar shorthand for "and," es, is not borrowed from one of the Romance languages of Europe as is often said. Landline ops had developed a separate symbol for the ampersand (&), dit dididit. The sound came over to radio, but most of us still copy it "es." If your handwriting when copying with a stick is as bad as mine, it looks about the same.

Expletive deleted, or the story of punctuation.

Originally, telegraph code had no punctuation. Most of it was developed on the spot as the need arose, some of it quite by accident. The early landline ops got a reputation for profanity; many of them were paid by the number of messages sent and received each day, and a mis-sent or mis-copied word often as not prompted a "damn" from one end or the other, followed by the last word received correctly. With the need for speed, it quickly became "dn." Management having taken a dim view of hard language, even that was written as "?" when copying, and thus comes the American Morse interrogative symbol, dahdididahdit. It didn't cross over to radio directly — it is almost as if someone failed to shift their typewriter, for we now use DN_ for a slant bar (/).

In American Morse "period" was originally spelled out, but soon only the last three letters were sent and even was shortened phonetically to just "ud," dididahdahdidit. It was widely used in early radio, later

supplanted by a new landline version of "." didit didit didit, but the Continental AAA was adopted by treaty in the 1930s.

IMI being such a handy symbol and the question mark having been lost to a nameless typist, it became our "?"

One of the characters Continental code didn't get in any form from the wire gang is "!" For some reason, no character has ever been adopted for the exclamation point. Perhaps they figured we were excitable enough already? On the "Boatanchors" CW net, I often use the three double-dits landline period for "!" Copied as "III," it looks about the same as "!!!!" It is a bit much but seems to work.

Best Wishes, Love and Kisses, & Other Popular Numbers

"73" and "88" (along with 4, 5, 25 and 30) were used from the very early days of landline. 73 is probably the most subject to abuse; it has meant "best wishes" from the beginning and the commonly used "73s" is redundant.

"88" has a more interesting history. While us YLs used it among ourselves as a less-impersonal substitute for "73" prior to the invention of "33" (about the same time YLRL was founded) and it has served perhaps more aptly in more than one radio romance, the very nearly all-male fraternity of landline ops didn't mean it in so nice a, way. Applied to ops who were thought too fussy over time-wasting niceties, the original implication is probably best rendered for a modern audience as "wimp!"

The other number codes are not widely circulated. A compilation of rail telegraph usage in Tom French's "Railroad Telegrapher's Handbook" (Artifax books, 1991) and information from the Lewis Co. Book, "The Telegraph," indicates that "4" means "Where shall I repeat from" (still used in radio), "5" is "Have you anything for me?" while "25" meant "busy" on commercial wires. (Rail used "25" to indicate high-precedence traffic, and "22" for "busy").

Lid Revisited

The usual derivation of "lid" is that some landline ops used tobacco cans to get a more distinctive note from their sounder in crowed operating rooms, lifting the lid varying degrees to get a sound they could pick out of the multitudinous din, and were derided by the old-timers. I have always found that tale a bit fishy—using a tin can as an acoustic amplifier seems to have been pretty common. One source suggests the term is an abbreviation; an op who couldn't keep up on a fast and busy circuit was often "lifted" and placed on "way" wire where the going was easier. "Lifted" boiled

down to "lid" and if an op was lifted several times, those down the wire asking where he was would be told "lid agn" in the landline shorthand. This became just "lid," and implied a poor operator as it does today.

Many a hapless amateur lid has encountered a Q-signal not found on the official list: "QLF?," "Are you sending with your left foot?" But a clumsy Morse op faced even more embarrassing questions from his wirechief: "How come you're sending with snowshoes on your hand and the key screwed to the ceiling?" or "Why is it you send by holding the key between your knees and squeezing them together?"

Lost and Found

After the Continental or International Morse Code was officially adopted for radio by treaty, most landline symbols either faded out or were "fitted in" to the standard code. One has managed to survive unscathed: we still use the American Morse C in a manner very similar to that of the landline telegraphers. Checking to see if there was traffic on a long common line at a current too faint to actuate his relay or sounder, the landline op would send didit dit, C. And so do we, though it's become all too rare. Even when sent, it's often a prelude to a long series of "V V V N3 TEST" and extended key-down time — I thought modern rigs didn't require much tuning! Must be the antenna tuner.... It's either that, or somebody's wearing snowshoes and has the key tacked to the ceiling.

(Sources: "Dotty Dots and Dashes," Radio_June, 1940; various filler from CQ_, 1950s issues; "Telegraph Codes And Useful Station Information," undated single-sheet handout (late 1930s), Western Union Telegraph Co. in cooperation with the ARRL; "Railroad Telegrapher's Handbook," Tom French; e-mail correspondence from James Haynes).

Our Web Page

Fellow FISTS:

First, an introduction... I am Bill Myers, KK4KF, member #2390. I have been a ham since 1986 and work almost exclusively QRP CW. I spend most of my on-air time on the 40 meter novice section of the bands. I really enjoy convincing these newer hams that there is more to contacts than name/qth/rst. And, I've met a number of our members on this band, apparently doing the same thing...

I am also the keeper of the internet webpage for the N.A. FISTS. Many thanks to Lee, N9NVV, for the harddrive space on his system for this page.

What is available on the homepage? Many things!!! You'll find out about the organization, how to join, pictures of the patches, pins, and stamps. Membership

lists are available for searching or downloading. Information of our "contests" and "events", as well as rules when I can get them for posting. A copy of the last CW message sent out on MARS is there as well as the last message sent out from NMN at Chesapeake Bay. I'll be adding a copy of the Keynote for nonmembers to view as a sample. The current issue of the Keynote WILL NOT BE put on the homepage.

You can also download an application form (Nancy has indicated that many of the current applications are from the homepage). Member internet homepages are linked from there and a list of member e-mail addresses is available. The CQ Magazine article about FISTS is posted. The How-Do-I box from page 2 is also on the homepage.

Picture pages of our members are also posted on the homepage. If your picture was sent out in a Keynote, it is posted. There have already been some concerns about pictures being posted on the internet. The homepage is the "property" of FISTS and if you allow them to post your picture on the picture pages, they also have permission to post it on the internet. If you DO NOT WANT your picture posted on the homepage, please drop me a e-mail or letter stating this and I will blank the picture out.

I have received a number of e-mail requests for the homepage to be "modernized". By that I mean adding more graphics and sound(s). I have also received a number of e-mails complaining about the "colors clashing"and thanking us for not "modernizing" the page. While many of us have upgraded our computers to "state of the art" or "I got all the newest stuff available", there are a lot of our members, and nonmembers, that visit the homepage who do not have all these bells and whistles. Many users are still using 14400 modems and are only displaying 16 colors. High resolution graphics are not displayed very well on these systems and take forever to load, even at 33,600. Just like "ACCURACY TRANSCENDS SPEED" I feel that simplicity convey's more information. By keeping the page simple it appears we can reach more people.

As always, comments, suggestions, or complaints are welcome. Hope to C U on the bands. 72/73's to All Bill KK4KF e-mail <u>bjmyers@arc.net</u> snail mail: P. O. Box 178 Shalimar, FL USA 32579

Sad, but true.....

Heard on the two meter repeater:

Operator #1: How's DX?

Operator #2: I don't know, haven't seen her since the divorce.....

Ten Commandments of Electronics

1. Beware of the lightning that lurketh in an undischarged capacitor, lest it cause thee to be bounced on thy buttocks in a most ungentlemanly manner.

2. Cause thou the switch that supplies large quantities of juice to be opened, and thusly tagged, so thy days may be long

on this earthly vale of tears.

3. Prove to thyself that all circuits that radiateth, and upon which thou worketh, are grounded, lest they lift thee to high frequency potential and cause thee to radiate also.

4. Take care thou useth the proper method when thou taketh the measure of high voltage circuits so that thou doth not incinerate both thee and the meter; for verily, though thou hast no account number and can easily be replaced, the meter doth have one, and, as a concequence, bringeth forth much woe unto the supply department.

5. Tarry not amongst those who engage in intentional shocks, for they are surely nonbelievers, and are not long for this

world.

6. Take care thou tampereth not with interlocks and safety devices, for this will incur the wrath of thy seniors, and bringeth the fury of the safety officer down upon thy head and shoulders.

7. Work thou not on energised equipment, for if thou doeth Thy buddies will surely be buying beers for thy widow, and consoling her in other ways not generally acceptable to thee.

8. Verily, verily I say unto thee, never service high voltage equipment alone, for electronic cooking is a slothfull practice and thou might sizzle in thine own fat for hours on end before thy Maker sees fit to end thy misery and drag thee into His fold.

9. Trifle thou not with radioactive tubes and substances, lest thou commence to glow in the dark like a lightning bug, and thy wife be frustrated nightly and have no further use for thee except thy wage.

10. Commit thou to memory the works of the prophets, which are written in the instruction books, which giveth the straight

 dope and which consoleth thee, and thou cannot make mistakes, sometimes, maybe.

Author Unknown.

Antenna Farms

If you want a really strong signal, you need an antenna farm. A linear amplifier is a good starting point, but without great antennas at good heights, you will be lost in the pile ups. Until now the expensive part of an antenna farm was the towers. A good tower can cost thousands of dollars, making it the most expensive part of the antenna farm. Recent advances in inorganic farming have changed all of this. This paper will give a short introduction to inorganic farming as it relates to antenna farms. Obviously, inorganic farming can be applied to other areas, such as high rise buildings, but towers and antennas are of more interest to amateurs and they are easier to grow.

As always, you will need the space for your antenna farm and soil condition is important. Just as you plant tomatoes and fertilize them with organic fertilizer, you will need the best seeds and the proper fertilizer for your antenna farm. Let's start with a conventional triangular base tower. To grow a tower like this, you need to find some suitable aluminum cuttings. Don't use just any old aluminum that is in your scrap pile. Just as you use the best seeds for your tomatoes, you need to be selective about what aluminum you plant.

High quality 6063 tubing with a good heat treating is essential. Plant about one inch of tubing for each 10 feet of desired antenna height. Be careful to space the cuttings carefully as the spacing will determine the size of the base and therefore the ultimate wind load rating of the tower. You might just as well use two inch diameter tubing with quarter inch walls as the increased cost over smaller sized tubing is not significant. Spending an bit extra on the best cuttings now will result in a much stronger tower later.

Not only must you be careful about the spacing, you must also be careful about the orientation of the cuttings. If they are all perfectly vertical, you will have a straight sided tower. While a tower with angled tubing will be stronger, lighter and have less wind resistance, planting the cuttings at the appropriate angle is best left to the experienced antenna farmer.

We have gotten a bit ahead; proper soil preparation is essential. A year or two before you intend to plant your tower, you must begin to fertilize heavily. The best fertilizer is 6063 shavings. The heat treating is not important for fertilizer. 6063 shavings are assimilated better by the growing tower than larger pieces and their chemistry matches the chemistry of the cuttings. You can also use beverage cans, however their chemistry is not ideal. The high magnesium content of the tops can be a problem. If you have high rain fall in your area, experience has shown that high magnesium content is often not a problem because magnesium is lighter than aluminum, rises more quickly to the surface and is washed

Plan on using at least two pounds of your inorganic fertilizer for each pound of the antenna you want to grow. Some quick calculations will show that this is a large amount of aluminum. You can fertilize every day if you are in a hurry, but once a month for a year or two should be sufficient.

Be careful to get the inorganic fertilizer deep into the soil. If you merely scatter the fertilizer on the surface, root growth will be insufficient. There is no greater disappointment than seeing a 100 foot tower blow over in the first good hurricane. Roots that reach 10 feet into the soil are required for a tower that will withstand 100 mile an hour winds. However this means fertilizing to this depth. It is difficult to fertilize that deep, but you can readily appreciate the benefit of doing so.

You might also consider adding calcium to the soil as your antenna grows to form a concrete like base. A good source of calcium is ground up, very fine, oyster shells. A significant amount of oyster shells are required, so this is a possibility only for people who live near the oceans. Clam shells from fresh water, for some unknown reason, do not provide as strong a base as one grown from oyster shells. This might be an interesting research topic.

With good fertilizer and good growing conditions, you can expect to grow a 100 foot tower in about five years.

Growing steel towers has been attempted with disappointing results. As with other plants, rust is a problem. The difference in cost of growing an aluminum tower as opposed to a steel tower is small so you might as well grow aluminum. Titanium is also a possibility.

Growing antennas, as you can imagine, is considerably trickier than growing towers. The problem is in the seeds, fertilizing considerations are the same. To grow a beam, you must first construct a small model of the antenna. An error of a few thousandths of a millimeter in the seed will have an adverse effect on the resulting resonant frequency, gain and overall pattern of the beam. Getting the gamma match correct is a very challenging problem. Growing antennas is best left to the experts.

So there you have it. If you are willing to expend some considerable amount of time and effort fertilizing your soil, are careful about the cuttings you use and if you are willing to wait a few years, you can grow outstanding towers for very little cost.

About the author:

Mark Kachel was first licensed in the late 1950's as KN9AAZ and then K9AAZ. He currently has an extra class license and his call is **NØOKS**. When interviewed about this article. Kachel said "Anyone can do organic farming. I thought it might be interesting to see what could be done with inorganic farming. It certainly does not require a green thumb."

The Traffic Hound by Pete K8OUA

Faithful readers of the Keynote will note that I've renamed this column. I want to move the emphasis away from the FISTS Slow Net to make it a general traffic column. Specifically, a CW ops traffic column. More specifically, a FISTS CW ops traffic column.

Let me start off with a statement that "I think that Email will be one of the greatest innovations to hit mankind in its history." OK, ok, that might not be that profound a statement, but Email has already changed the world dramatically within the past few years. Imagine what awaits us twenty years from now! Imagine the world of communications in only two or three decades. OK, so what's the point?

Everyone knows we're in the midst of a revolution. There will be dramatic changes to our lives because of this revolution. Well, I just want to state my feelings publicly, here. I believe that hams are using Email and the internet too much and too often, to the detriment of our great service and hobby. Oh, no, you say, not another Luddite eager to turn the world back to the 1950's or before! No, I don't believe I am a Luddite, nor do I want to turn the world back! Well, if I could I might, I'd love to be back in the fifties knowing what I know now, but with a young man's face!

No, I am a keen user of the internet, own three different Email addresses, and use two of them extensively. I have a hard enough time meeting Nancy's Keynote deadlines using Email to send these articles, if I had to do it by snail mail I'd never get anything published. But, I still believe that we hams are tending to use Email too often simply because it's easier. While it may be easier, other ways often serve our purpose better.

We had some birthday notices come through the FISTS Email list, suggesting we send an Email message to a member wishing him happy birthday. A great gesture and I'm sure he appreciated it. But did it really serve our purpose as an organization? I wonder how many of us even thought of using the National Traffic System by putting a message into one of our traffic nets wishing this member a happy birthday. Imagine what would have happened to the local nets if, say, fifty messages came to this fellow's address wishing him a happy birthday. This would have shaken up the net considerably. More importantly, it would have given traffic ops across the country practice that they certainly could use in forwarding and delivering traffic. Nor is this the only example of such an overuse of Email. Most of us receive Email messages that could easily have been sent via the traffic nets PAGE 20

Yes, I know that sometimes you need to say things using more than just the twenty-five words that an NTS radiogram allows. Or, you may want the limited privacy that Email provides. OK, when that's the case, use Email! But, what about the times that require much less verbiage or privacy? What about the article you read in the Keynote that you thought was so great? Couldn't you send a quick NTS radiogram to the author expressing that sentiment? We just don't do that for some reason.

Many, probably most, Old-Timer hams have never sent a message to anyone using the NTS. Yet, traffic handling was the foundations upon which amateur radio was built. It is the reason our parent body is called the American Radio RELAY League. And even today in this world of technological magic, people across the country still receive warm and welcoming messages from local hams. What's that you say? You don't know how to do it? Well, you didn't know how to send Morse at one time either, but now you do.

How about trying this -- pick out someone, anyone, a friend or relative living across the country, a new FISTS member, or me! Find the person's address, and, if you can, his/her phone number. Write him a message of greeting. Doesn't matter what, just a message telling him that you are thinking of him. Then, put it into the system. What's that you say? You don't know how to find the address and phone number of the person? How about the internet? Go to Yahoo and search under "people search telephone". Put in the last name and city/state, and you may find out the individual's address and phone number. My address is Pete Kozup, K8OUA; Warren OH 44481; Phone 330 847-0975. Put it into a net and send it on its way.

Oh, you don't know any nets? Or, you're worried about flash traffic handlers and what they'll say to a novice? Well, bring it to the FISTS Slow Net, 3.682 MHz at 9.00 PM Eastern Time any Tuesday or Thursday evening. Give the message to me, and I will help you send it out, and I'm very gentle!! Sure, this is more complicated and fussy than Email but I can guarantee you that it's also more fun and satisfying. And, it sure as heck does a lot more good for the mode we love than sending it via Email.

Next month we'll talk a bit more about writing messages and getting them into the system. If you have the time, send me a message — I don't care what it says, and I hope to see you on the nets. 73, es ARF, Pete K80UA (I love getting traffic too — My phone is 810-797-5388, street address 5450 Diehl, Metamora MI 48455 —Nancy Kott WZ8C) IR NEWSI FITER ISSUE 7 1997

FISTS CW CLUB NEWSLETTER

AMATEUR RADIO LICENSE PLATE FEES

This report was compiled from data given to ARRL HQ from ARRL State Government Liaison volunteers.

STATE INITIAL/RENEWAL FEE

Alabama* \$ 3/3

Alaska* \$ Free/Free -- General or above; \$20/30 -- Novice or Technician

Arizona \$25

Arkansas \$2 -- Private passenger vehicles only

California \$21/none Colorado \$2/2

Connecticut \$12/Free -- Issued for pass commercial, combination, camper or motorcycles; processing= 9 weeks

Delaware* \$ 10/Free

Florida \$5.00/1.50 -- Plus: service fee 2.50; postage fee 1.30

Georgia \$20/free -- "Amateur Radio" listed on tag; Same cost as vanity plates; Fixed five year cycle; must at beginning and every five years; May to July only order period; Much more expensive than surrounding states; Fee also applies when license plates are remade every 7 years

Hawaii \$10/5 -- Must apply through county Civil Defense office: Takes 4-8 weeks

Idaho \$5/free

Illinois \$ 3/free – "Ham Radio" appears on plate Car, truck or motorcycle only; if driver has ham tags, may legally use

a headset; special brochure available

Indiana \$ 2/2 lowa* \$ 5/5

Kansas \$ 1/1 -- Passenger or trucks; Same call sign/tag permitted on cars and trucks

Kentucky* \$25/25

Louisiana \$20/20 -- Renewal every two years

Maine \$15/15 Maryland* \$5/5

Massachusetts \$20/20 -- Ham tag fee is half waybetween regular plate registration of \$20 and the vanity plate registration fee of \$70; Plates all expire November 30; Plate registration and vanity plate fee of \$70; Processing time is 8 to 12 weeks; passenger vehicles only (law pending to include other types of vehicles)

Michigan \$ 2/free -- Novice operators not eligible for ham plates; Only people with ham tags eligible for a permit to own a ham rig capable of receiving police frequencies

Minnesota \$ 10/free -- Can have plate on second car with "dash #"

Mississippi \$15/

Missouri \$20/20 -- Affidavit required stating that Amateur holds an amateur license

Montana \$ 5/ -- SGL is state legislator; Ham tags issued only to "conditional"; Tags expire Dec. 31

Nebraska \$5/5

Nevada \$25/free -- Plus usual registration fee New Hampshire -- Plates not available in NH

New Jersey \$10/free -- More than one car can use a hamcall (eg. W2WEC-2)

New Mexico* \$ 3/3

New York \$11/5 --More than one ham call can be used, but must be altered (KB1HQ-1)
North Carolina \$10/ --Bills currently in House and Senate to raise the fee to \$10.00 each year

North Dakota \$ Free/ Free
Ohio \$ Free/5
Oklahoma \$ 2/2
Oregon \$ 7.50/free

Pennsylvania \$ 20/free -- Request for multiple plates (WA3IAO-2) pending

Rhode Island \$ Free

South Carolina \$ 1/1 -- Deadline: July 1 and plate is valid starting Nov. 31

South Dakota* \$ 2.50/2.50

Tennessee* \$ Free/Free -- Must be a member of RACES or ARES; Proof of above is required; Multiple tags may be ordered (e.g. WA4VZQ, WA4VZQ-2, WA4VZQ-3, etc.) Tags say "Emergency" in addition to the call

Texas \$ 2/1 -- Can have the same plate on multiple vehicles; Must have transmitting equipment in vehicle; Title

need not be in vehicle; Plates available only for cars and light trucks Utah \$10/none

Vermont* \$15/15

Virginia \$ 1/1 -- Amateur equipment must be kept in the vehicle; Amateur must own the vehicle

Washington \$6/free

West Virginia \$5/ -- All plates expire July 1

Wisconsin \$10/free Wyoming* \$4/4

NOTE: Most states require a copy of an FCC amateur license as well as proof that tax has been paid on the vehicle. They also require that the title is in the ham's name. The license fees, in most cases, are in addition to the usual registration fee.

^{*} The asterisk indicates that the information may not be up-to-date.

FISTS Spring Sprint by Pete Kozup K8OUA

The Spring Sprint saw some strange things happening! Almost every station that sent in logs complained about the conditions, and this writer was one of them. Conditions that day were not very good, noisy bands and signals that couldn't seem to bounce off the backyard pond, let alone the ionosphere.

I kept wondering, where are all the FISTS out there? Why aren't more stations participating? It seemed that the bands were noisy, but not with FISTS signals. Yet, if you accept these, how do you explain a winning score that doubled previous winning scores?

How do you explain a higher turnout of logs than in any previous Sprint? And, as usually happens, the comments by those participating were very favorable. It was another fun event that had 36 logs sent in from every call area except the 3rd call area.

Incidentally, to those living in God's country up north, this is a North American Sprint. VEs are able to send in logs too, you know. Perhaps one day I'll drive to the border, set up a rig and get some VE participation in the Sprint. C'mon gang, this is a fun contest, and it would be nice to get some Canadian logs in.

One neat thing that happened was that we got some good DX participation, and some DX logs sent in. Two Russian contesters, Vlad UA6JD (FISTS #1385) and Victor RA3VY (FISTS #1110) both sent in logs, as did Les G3VQO. Thanks fellas, we need to come up with ways of getting DX FISTS involved more -- perhaps this should be a free for all like the CQ WWDX test in which FISTS from everywhere can work other FISTS from everywhere else. As it turned out, this is what happened, to the benefit of all.

OK, here are the results — no question at all about the winner — John, K4BAI, compiled an incredible 15,260 point total. His actual total was even higher than HE had figured, because he did not give himself multiplier credit for each DX station he worked. John had a total of 96 contacts for 436 QSO points on 15, 20, and 40 meters, with 35 multipliers!! Great job, John!! John's total score almost beat the combined scores of the next three places, and these guys were no slouches themselves.

Ed, N2ED (great call!!) in his first Sprint, scored a very good 6,399 points, with 51 QSOs for 237 QSO points, and 27 multipliers. Ed will be one of the ones to beat next Sprint if he can do this well on his first try.

Third spot goes to Dan, W8EQA, bringing Utah to the masses with a score of 4899 points. Nice result, Dan, especially considering that most FISTS are back east and a long way from you.

Special honorable mention to Brian, W8BL, whose 4628 points earned him a fourth place finish, to Josh, AE2L, with 4480 points for fifth place, and to Al, WA0FAX, whose 4324 points earned him sixth place.

Unfortunately, there were only two QRP entries, both of them from the great state of Ohio. K8OUA with 1300 points, and K8UCL/QRP with 376 points carried the banner for the QRPers. Where are the rest of you peanut whistle guys?

I've been acting as the coordinator for the FISTS Sprints since they started and have enjoyed it over the years. But, it's time to hand over the reins to someone else. Tom AC5JH will be looking after them in the future. Thanks to all those who have participated, and a special thanks to those of you who have sent in logs. Hpe CU in future Sprints. 73, Pete K8OUA

Comments: "Just returned home from vacation and missed the first couple hours . . . sure "Worked most of the FISTS that I heard. sounded nice hearing that 'CQ FISTS' " K4TXJ; QRO people . . . don't forget to listen extra hard for us little QRP guys." K8UCL; my first entry and I had a great time. My biggest thrill was having Nancy, WZ8C, answer my CQ "Was on 21058 and 28058 at "Bunchafun! C U next time" W8EQA; on 40m." **N2ED**: 1800 and 1900 . . . what's the matter, no antennas for those bands, or just a case of the Solar "Thought I'd send a log . . . just to show that we're listening . . . Cycle Blues?" AA9KH; over here in Europe. Conditions were very poor . . . but thanks to the two guys who managed to "Sri I was such an eager beaver — starting early HI pull me through the noise." G3VQO; "My first contest with forgot D.S. Time, but found out . . . and waited the hour." WO8E; My new CW filter made the difference this time, and I FISTS. I can only do better!" **NOOKS**; added 18 FISTS to my Century Award log. Thanks! KQ6ES; "Had very bad condx on bands "Nice little contest . . . called CQ in the at my QTH. Hope to do better next time." WB2EXI; 40 meter novice band for 15 mins. and gave up." WAOFAX; "Enjoyed my first sprint as FISTS member — conditions weren't that good . . . but worked almost every station I heard. "Great contest — just the right length! Maybe outdoor antennas would help, HI!" WA2VQV; "I only had about twenty minutes to operate . . . but . . . here it is." HI HI" KE4ZQD; "Great sprint. I only got to spend 1 hour in contest. Had lots of fun though. Looking K8FN; "Poor band conditions, 20 and 40 meters only bands open, forward to Fall Sprint." KF6DCU; but still had fun." NEOC; "Had a good time and worked 15 new FISTS members towards my second century award. I finally got a chance to work WZ8C, Nancy . . . " WA2BQI.

SPRING SPRINT SCORES

<u>Call</u>	QSO Pts	<u>Mults</u>	<u>Total</u>
K4BAI	436	35	15260
N2ED	237	27	6399
W8EQA	213	23	4899
W8BL	178	26	4628
AE2L	224	20	4480
WA0FAX	188	23	4324
NE0C	167	22	3630
UA6JD	124	24	2976*
AF4NC	183	16	2928
KT4KC	135	21	2835
N1PT	129	20	2580
WA7YYY	138	18	2484
KQ6ES	154	15	2310
NOOKS	139	16	2224
K5JAZ	124	17	2108
WB2FXK	130	15	1950
KE4ZQD	114	14	1596
K5SO	112	14	1568
K8UGL	97	16	1552
WA2BQI	100	15	1500
WO8E	110	13	1430
K8OUA/QRP	100	13	1300
WA2VQV	95	12	1140
N1VWD	87	13	1131
AC5JH	86	12	1032
KC5GXC	81	12	972
AA9KH	72	12	864
K4TXJ	69 72	10	690 576
WB2EXI KC6DCU	72 52	8	576
K8UCL/QRP	47	9 8	468 376
KB5VTB	47 37	8	
RA3VY	31	. 7	296 217*
KE8SX	35		175
K8FN	15	5 3	45
G3VQO	15	٦	45*
٥٥٧٧	1.5	J	45

*Not all QSOs included at least one North American station.

Hints For Finding FISTS On The Air by Bud WA2BQI

I usually operate after midnight, as I am working towards the new W.A.S. FISTS award, and I find that this is the best time to find new states and DX FISTS. I now have 36 worked and 36 confirmed by QSLs, through the FISTS QSL BUREAU. I also am working for many other awards and find this is a good way to get what I need, so I check each FISTS card when I get them for counties, prefixes, grid squares, ITU, and CQ zones. FISTS almost QSL 100 percent. As far as ideas on working FISTS members I simply call CQ FISTS on 7.058 and do alot of listening. I always hear a few stand-bys working this FREQ. and I usually jump in after they

finish there QSO if its a new FISTS for me.

The regulars that I listen to are **W6DDB-**CA, **AC5GP-**TX and **WA4KQ-**IL. This gives me a big area for working new states. I guess you might say its not the SP method, but I call it working the piggy back method.

Hey, you never know, by calling CQ FISTS who you will work. I have worked a DL6, CM2, KP4-two QRP stations, a SSB dx station who switched over to CW and told me I was causing him QRM. I told him he should stay on CW and join FISTS instead of SSB QRM on our CW freq. HI HI.

I've operated CW now for 40 years, and sure hope CQ FISTS dose not sound like CQ DX by my fist.

You might start working contests, if you don't already. After you finish simply check the calls in your log against the lists that Nancy WZ8C sends in the KEYNOTE for members. I've picked up many this way. The best contests to work for this are MARC, QST SS, Field Day, CQ WPX.

I also check every QSO that I have against these call sheets, as you usually don't always give your FISTS NR out during an average QSO.

In the last 5 weeks I have worked 51 new members on 40 meters and have received 22 QSLs by the bureau, run by W8BL (nice job). Who says QSLING is dead? It sure isn't among FIST members.

The sure method of working new members is again simply calling CQ FISTS, and listen. I have worked them on all over the lower part of the 40 meter band. If you're interested in DX FISTS give out a call around 7.027 plus or minus. It is worth 2 points to get a DX FISTS.

The Novice band might be a good place as well because the old timers or elmers like helping the novices with the code, and you might find a few new members hanging around there. I find that for some reason Sunday night at around 0100Z - 0300Z is a great time for finding new ones on or around 7.058 khz. One night I gave out a CQ FISTS call and had six members come back to me at once. I worked all six one at a time, it was great, I thought I was in a DX pile up caused by me. HI HI.

Good luck working new members and hope to meet you on the calling freq for FISTS 73 Bud **WA2BQI**

FINAL

LATE BREAKING NEWS:

World Radio magazine is reinstating their CW Column, which will be written by Yours Truly! The CW column will be printed bimonthly, starting with Sept or Oct. If it is well received, it may go monthly. I am just thrilled about this and find it very encouraging, particularly in light of the apparent bias of CQ magazine. I urge you to support WR. Please take a moment to drop them a note or Email and let them know you are interested in CW and thank them for adding a CW column. Their address is 2120 28th St, Sacramento CA 95818. The Editor's Email is kb6hp@ns.net 73/88/33 Nancy WZ8C #0379

WAS RECORD SHEET

STATE	CALL	NAME	BAND	FISTS NUMBER	DATE
Alabama					
Alaska					
Arizona					
Arkansas		,			
California					
Colorado					
Connecticut					
Delaware					
Florida					
Georgia					
Hawaii					
Idaho		· · · · · · · · · · · · · · · · · · ·			
Illinois					
Indiana			J		
lowa					
Kansas	,				
Kentucky				·	
Louisiana					
Maine					
Maryland (D.C.)			-		
Massachusetts					194 d 1944 - 1944 - 1944 - 1944 - 1944 - 1944 - 1944 - 1944 - 1944 - 1944 - 1944 - 1944 - 1944 - 1944 - 194
Michigan					
Minnesota					
Mississippi					
Missouri					· · · · · · · · · · · · · · · · · · ·
Montana					
DACE 24		EISTS CW CLL	ID NIEVAICEE	TTED ISSUF 7	1007

Nebraska		1			
Nevada					
New Hampshire					
New Jersey		-			
New Mexico		·			
New York					
North Carolina					
North Dakota					
Ohio					
Oklahoma					
Oregon					
Pennsylvania					
Rhode Island					
South Carolina					
South Dakota					
Tennessee					
Texas					
Utah					
Vermont					
Virginia		, ,			
Washington					
West Virginia					
Wisconsin	,				
Wyoming					
Applicant Name_AddressQRP (5 watts or le		t	hereby apply for the pelow, I certify that two-way CW QSO's accordance to the rule	theses contacts with FISTS me	are legitamate embers made in
QRO (over 5 wat	ts)	•	WAS Award		
Callsign ISSUE 7 1997	FIST	S#S	Signature		PAGE 25

International Morse Preservation Society







Sec: E. (Geo) Longden, G3ZQS. 119 Cemetery Rd., DARWEN, BB3 2LZ, England. 01254-703948 Packet: G3ZQS@GB7HVU. E-Mail: fist1@compuserve.com or morseman@airtime.co.uk

OFFICES

QSL Manager: G0FRL. Bob Lowe PO Box 190. BOLTON. BL1 4UL. U.S. Rep: WZ8C. Ms. Nancy Kott. 5450 Diehl Rd., METAMORA, MI48455 PRO: G4YLB. J.A. Weish 3 Minster Cresc, DARWEN, BB3 3PY CONTEST MANAGER: GM4BAE Northbrae, Brookfield Cresc, STRANRAER, DG9 0HY

NETS Sunday QRS 0900 (loc) 3.575 2E0AJS US 0100Z on 14058 Tues: GC0IPX/P 1930 ON 3.558 (+/-) Wed: US Net 0100z on 14058
Thurs: QRS 1900 (loc) on 3575. 2E0AJS
DX 14/21/28.058 on the hour for 15mins
Pse keep watch all Novice allocations
UK Net Controls use GX0IPX/P

Up-dated listings may be obtained from HQ. SAE plus current stamp. Lapel Badges,£1.50 incl. Fabric patches £2.50 incl. QSL Cards £5.00 per 100 or £8.00 per 200 (UK and EU pse add 50p for p/p. DX members - on advice.

GREETINGS

Hi People. Thank you for your patience in regard to the missing 'June' Keynote. The cause of this of course was two weeks spent in the US and my attendance at Dayton.

Dayton itself was great. The weather was superb over the whole weekend and we had over 130 FISTS members signing in or joining. As usual, Nancy and her charming Mum put up a grand display on the booth. I arrived to find a redhead where I expected a blonde but otherwise all was as in previous years and it was a rare occurrence when the booth did not have a crowd of visitors chewing the fat.

During the weekend, Al Winkler conducted various forums one of which was devoted to the cry for a no-code licence in which Nancy and W5YI ran a head to head and viewpoints were expressed from individual members of the audience. I could have been famous here as the camera was focused on the founder of FISTS but unfortunately I had to exit for about 2 minutes for a breath of air and a drink of water so the only thing the camera saw was an empty chair. T'would have made no difference since the debate was a domestic one and it would not have been right for me to voice any opinion and though it must be admitted that although there was an expectedly large representation of the club present, the forum hall was only one third full and FISTS was a tiny percentage of all those attending Dayton so the small handful of folks who were pushing for a code free ticket could easily have been swollen to a majority if the feeling had been there. The day undoubtedly went to Nancy who spelled out the danger signal by dressing in a fiery red. Hi.

I bumped into G3TUX in the exhibitors lounge but that was the only time I saw him. Dunno where you were exhibiting mate because I failed to find any reference in the guide...

It may have been a surprise to many but there were a number of booths dedicated to CW including Vibroplex and the odd thing is that these traders with keys, keyers and other CW oriented

goodies were never shy of interested visitors.

Charlie ran his usual station with (I think) a little more success than hitherto because of a different antenna arrangement but the 'slinky' still left a lot to be desired. As a contrast, Brian fitted a bug catcher to the rear end of his pickup and at the metel, we ran a TS520 with car batteries, connecting the antenna socket to the whip via a length of coax squeezed under the door There was never a dull moment. Hi. Incidentally, testing this setup from the home location was causing Brian a few headaches until I pointed out that the coax would be better mated with it's receptor on the antenna than lying on the ground. It takes all sorts folks doesn't it?

Vibroplex dug up a prototype iambic which was passed on to Brian W8BL to 'sort out'. Viewing it, there seemed to be something wrong and I think that the first mistake was trying to support both paddles on a single fulcrum which meant distorting the "dash" paddle and having its lever run immediately above that of the dot leaving precious little space for weights. There

is no way that this or any other mechanical iambic is ever going to replace the iambic keyer and paddles which we have come to regard as standard but the concept is of interest and will no doubt continue to be so.

Brian and Heft around noon on Sunday and predictably (according to him) the weather turned cold and murky as soon as we hit the Michigan border and we left Ohio still bathed in sunshine. Michigan is at least four and possibly six weeks behind the UK in terms of seasons and the fully clad trees which I left behind were replaced by straggly copies dressed in their underwear. I enjoyed many hours on the Corsair and worked well over 100 members during my stay. The Ford museum was a surprise. A string of past Presidents cars was on display and other Ford oriented paraphanalia as you might expect but there were also ancient railway engines and rolling stock, tramcars, horse-drawn buggies and fire appliances alongside some exceedingly rare amateur and general radio kit. I was transmogrified. Domestic and farming appliances, a complete coopers workshop, gigantic stationery steam engines with platforms for the public... well worth a visit if you ever get to Detroit.

After getting more and more sluggish over the past 12 months and particularly in the last 6 months, curiosity got the better of me and when the Distric Nurse came to take Ivy's BSC I asked her to take mine. It turned out to be in excess of 12.5 and I trooped off to see the plumber who confirmed that I was diabetic. I expect to be on some sort of pill after I see him again in a couple of weeks but having mentioned this on the air, I got two consecutive contacts who, in effect, said "welcome to the club". GOVTN and G4MSR are just the first and I would expect that there will be a far greater number than would have been

envisaged.

FLAMES

With apologies to those who do not play on the internet, this is netspeak for a letter attacking someone. Seemingly, an individual WA6VSE, has been distributing flames calling for official investigation into the funds of both the ARRL and FISTS. He seems to think we are some sort of subversive organisations with political agendas and since he never sees a financial report suggest that the IRS (Inland Revenue Service) should take an interest. Hmmm.

AMATEURS DREAM

Received a super e-mail from Ralph, ZL2AOH concerning the Quartz Hill site near Wellington. The document included some photographs of the site but I do not have the expertise to isolate these for reproduction.

TheQUARTZ HILL amateur radio station is on Makara farm, a mixed stock operation on the hills above Makara Beach, west of Wellington. Quartz Hill is designed for amateur radio DX and contest activities plus shortwave listening - on all frequencies from VLF through HF.

Until late 1996, Radio New Zealand operated a receiving station at Quartz Hill, listening in the medium and shortwave bands and providing material to State broadcasters.

Electricity Corporation of New Zealand (ECNZ) is the new owner and plans to eventually build a wind farm on the land. In the meantime, Wellington Amateur Radio Club Inc corporated society encompassing Branch 50 NZART) has negotiated a lease with ECNZ to access the property and use the remaining former RNZ facilities for amateur radio.

Quartz Hill features: 100 acres of antenna farm including longwires, vee beams and rhombic beam antennas.

A purpose-built building that includes 5 operating rooms, 2 sleeping rooms, kitchen and bathroom with shower.

Low levels of manmade RF noise.

An elevated location (300m ASL) with good low-angle takeoff in all directions.

Easy access. Only 30 minutes (max) drive from central Wellington city on sealed roads.

A Quartz Hill User Group has been formed for amateurs or shortwave listeners who are interested in using the facility. Only members of this group may use the station facilities. The one exception is club-sponsored events, when any club member may use the facilities.

THE CLUB KIT PROJECT

Nancy includes the following info in the NA memo: Last month, I announced our Club QRP Project Kit. I was under the impression that the kit was going to be available at Dayton, but I never found out where the representative with the kits was located - or if he was there at all! Many FISTS came by our FISTS booth asking about the kit, so I know the interest is there. The kit, the NW series, is available from Emtech, 3641 A Preble St, Bremerton WA 98312. Phone is 360-415-0804. Email is

roygregson@aol.com.

It is available in your choice of 80,40,30 or 20 meters. The 80 and 40 meter version include coverage of the Novice bands. Features include: tuning from a 8:1 vernier variable capacitor, variable bandwidth crystal filter, full smooth QSK, internally adjustable sidetone level, full QRP gallon, internally adjustable down to milliwatts, and features a FISTS logo on the front. The painted/silkscreened cabinet is 6.5" x 2.5" H and 5.5" D. The price to FISTS members is \$120, including cabinet, hardware, filter and shipping. Specify which band you would like.

For EU members interested, there will perhaps be additional shipping charges. Suggest you ask first either by e-mail or phone.

NANCY AND THE DEBATE
The Debate about "should there be a CW requirement for HF privileges" against W5YI was a big success for Our Side! I had many people come up to the booth on Sunday, say that they saw the debate and wanted to join FISTS! W5YI told me the next day, that it was the "biggest blow to his ego that he's ever had" — all day long people were coming up to him and telling him how they disagreed with his anti-code requirement stand. I want to give a big Thank You to Peter O'Dell. Peter is a FISTS member and a hypno-therapist. I called him and asked him if there was something he could do for my stage fright. He did a session of some stuff called NLP with me over the phone. It's not hypnosis, but a 'positive thinking' imagery type thing. The results were amazing! I was filled with confidence and didn't hardly even have butterflies! Peter has code tapes using these principles - I can't vouch that they will work as well as the NLP did for my stage fright, of course, but they would be certainly worth looking into. His address is Alternative Arts 261 9th Street South, Naples FL 34102 (800) 425-2552.

MEGS

GM4HYF reminds me that he has been sending computer generated practice Morse in the form of "speedruns" under the GB2CW banner for over a year now at speeds of 15, 18, 20, 25, 27 and 30wpm on a frequency of around 3257KHz from 2045 to approximately 2230 local time each Thursday evening. Free cassette tapes of practice Morse are available to all FISTS members and they find that they are being asked for the tapes more and more by operators who wish to increase their reading speed and not just to candidates for the 5 and 12 wpm Morse

Many such requests are for speeds of 20wpm and up to, to take advantage of this service, please SAE or adequate return postage in stamps and a blank C90 cassette tape with a note of the speed and type of practice code required (PL & QSO, QSO, contact a pal who lived about half a mile away but nothing

only, PL with or without punctuation symbols, groups of numbers etc.) with the cassette to GM4HYF. Geo. M. Allan. 22 Tynwald Ave, High Burnside, Rutherglen, G73 4RN. George also appends his phone number which I assume is OK for publication as 046-6344567 (should this not be 0141??).

LAST SUNDAY LADDER

GS4LHI	19	38	0	310	348
GW0SGG	18	36	1	281	318
G0MGD	22	44	7	166	217
G0TBD	8	16	0	201	217
G4OOS	10	20	0	180	200
G4PTE	11	22	2	127	151
G0MRH	6	12	l	137	150
G0FVS	7	14	0	104	118
G4RBE	3	6	0	64	70
GW0PXQ	H	22	0	47	69
G0VBH	6	12	0	12	52
G0WAS	9	18	3	10	31
GI4CBG	7	14		14	28
G0VCY	1	2	0	24	26
G0PEH	2	4	3	10	17
G0IFX	8	16	0	0	16
G0ATR	4	8			8
As of 8/6/9	97				

Again, at the top of the rankings 4LHI has produced quite a margin over Bill, GW0SGG but as has oft been pointed out, things can change pdq with a table of this nature.

LETTER FROM SWL

As an eleven year old boy John (GSWL3) was fascinated by Morse and Radio in general. He strikes a chord with yours truly who also "dabbled" at the same age.

"I was very interested in the Morse Code due to a neighbour; an old lad called Billy Reid. Billy had been through WWI and when he was demobbed he got a job with the Post Office as a Telegraphist. In those days, Wireless was just getting into it's stride and Billy loved tinkering with bits and pieces of radio equipment and he taught me to build a "straight three", a battery set with a 120v battery, grid bias and a 2v accumulator. With a speaker and 75' aerial, I was able to pick up Athlone in the South loud and clear whilst a neighbour with a 6 valve superhet could not receive it as well as I did. She wondered how I could get such a good reception from a bundle of bits which could be picked up very cheaply in Belfast's Smithfield some 25 miles away.

I learned the code and on the old set which I built with Billys help could hear a neighbour tuning in next door. I would get a series of oscillations and that gave me an idea. I had made a Morse key of sorts and connected a wander plug from one side of the key and tuned in to Athlone. When the reactance was too great, my set broke into oscillation so I tuned past Athlone to cut out the sound and hey presto! I had a ready made oscillator. I connected the positive of the HT battery to the receiver via my wandering lead and keyed out 'CQ CQ CQ de Johnny Murray. Are you receiving me'. Not the way to do it of course but I was having fun and in the middle of my keying came a knock on the front door. When I opened it, there was old Bill with his glasses perched on his brow. "Are you mucking about with Morse Code?" he asked and I was delighted to tell him of my great idea. "You will have the Post Office sending someone to investigate" he said and I was astonished to say the least. How on Earth did you know I was "Morsing?" I asked. He said he had picked me up on his receiver which I could not believe so he told me to go along to his house (three doors away) and listen to his set whilst he sent a short message. Bill Was a 30wpm man and I would not be able to read his transmission but he said "I will send slowly 'What sort of sweets does your best Girl prefer' and when you know the message you will be able to follow it". I couldn't get down to his house quickly enough and for a minute or two nothing happened and then, loud and clear, the Dits and Dahs came. I was over the Moon. Billy again warned me that I was breaking the law though I did try to

could be heard.

I managed to get another school chum interested in learning the code and he and I together with one or two other chums, went along one night to a spot called The Bankheads. It was a large grassy place sloping down to the shore and I gave my chum a copy of the code and a torch. I sent him to a spot about 50 yards away after explaining that I would flash a message to him and he was to acknowledge each letter by waving his torch. It took about half an hour to complete the message in this manner. My chum when he left school got a job on a boat sailing between Larne and Preston and in years to come I was to meet him as Captain on Ocean Liners. Knowing the Code was part of the test to acquire his Masters Ticket," John's story rings many bells with me though he does not appear to have succeeded in depriving his neighbours of power as

John's story rings many bells with me though he does not appear to have succeeded in depriving his neighbours of power as I did when, whilst tinkering with the local DC supply, I blew a common mains fuse that protected our own house and three others. Hi.

John. The database is constructed around callsigns and in the absence of such, SWL is used instead. GSWL for UK, DSWL for Germany etc. We append a number (GSWL3) to make that field unique.

NEW MEMBERS

	11277		
2859	HB9ZE Frank	2860 G4UCJ	Sean
2861	GW4SDO Dave	2862 G0AZH	Jerry
2863	G4YZO John	2864 G6QA	Lynda
2865	G3JMZ Jack	2866 GSWL3	John
2867	G7MGV Bob	2868 G0UIW	Tony
2869	G3AQF Harry	2870 M0AKN	Gordon

QRS NET

The Tuesday evening run presided over by Bill, GW0SGG, is firmly established. There is a regular turn out of a group of stalwarts and often enough some odd visitor or two surfaces. Recent visitors drew attention to contests and felt it improper that the Club Officials were excluded. This is not so Bill, all officers and committee members are free to take part in any club activity. I think you are being mislead by my own reluctance to partake actively in the Last Sunday, Straight Key Week etc. but this is because I cannot guarantee to sustain activity and apart from that, I feel I would have an unfair advantage being HQ station. I am happy to dish out points of course but I am so busy with general FISTS business that I could not be sure of maintaining such activity.

LEICESTER CLUB

Dear FIST members,

LRS is one of the oldest radio societies in the UK (formed 1913) and now requires a move to newer premises with better facilities for training and operating - ready for the next millennium.

We have negotiated a series of discounts with hotel groups and car rental companies within the UK. Anyone who needs to hire a car or book hotel rooms within the UK could benefit from our card and make savings - up to 35% on car hire.

Companies currently with us include Avis Rent A Car Ltd, Hertz (U.K.) Ltd, EuroDollar Rent A Car, Stakis Hotels, Wayfarer Inns and Jarvis Hotels.

Together, these excellent companies offer a superb range of accommodation and vehicle hire possibilities.

It is not necessary to be a licensed Radio Amateur in order to obtain a card - it is available to anyone, anywhere around the world, or within the UK. Some Car rental companies are also offering discounted rates within the USA and Europe.

Every card sold increases funds available for new premises, equipment and training.

As the cards are taken up we expect that other companies will offer discounts, broadening the range and type of savings that can be made - these will be updated onto our new web site. Anyone / any company wishing to offer further discounts are welcomed.

The discount card has been priced at £10 (Sterling) and can be obtained using a Mastercard, Eurocard or Visa credit card (Cheques are too expensive

to handle unless they are Sterling cheques or drawn on UK cheque accounts).

We intend that this modest outlay is recovered very rapidly as bookings, and consequent savings, are made.

Our new website is well under way and contains details about LRS, its members and what we are hoping to achieve.

An order form for the Discount Card is included and can be printed off, completed and posted to us here in the UK. Subscribers should allow 28 days for delivery.

Check out - http://www.foobar.co.uk/dialin/silver/lrs

We are NOT a commercial company - we are a reputable Amateur Radio Society with ideas for the future. LRS seeks to further Amateur Radio in general and all monies raised will be used to this end.

John Alexander

Please direct any enquiries to me, John Alexander, via snail-mail, fax or E-mail at the above numbers / addresses.

Anyone requiring hardcopy text on LRS Letterheads can be supplied with these via standard mail or fax upon request. With regards

John Alexander / G7GCK LLB Hons, BSc Hons Leicester Radio Society

Magnificat

Samuel F.B. Morse

1791-1872

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EDGWARE SK EVNG

This annual event has always been well supported by FISTS members so we are looking ahead a little to Friday, 19 Sept from 1900z. The QRG is in the vicinity of 3560 and as usual, they attempt to mount special stations. Look out for GB2SKE, G3ASR and possibly G4UIZ/P so get the dust of the straight keys of yours and join the fun.

SHADOWS OF TITANIC

GW0LTU sends a photo copy of an article from the Western Mail.

"When Arthur Moore told his father he had picked up the SOS distress signal from the doomed Titanic he was reprimanded

Moore senior dismissed his son's claim and realised he had again spent all night fiddling with his multifarious radio equipment.

For years he had implored his son to be fresh and alert for the early morning starts at their family run watermill at Geligroes near Blackwood. And why should he have believed his son's outrageous statement? After all, the Titanic which was in the middle of its maiden voyage across the Atlantic was considered unsinkable.

As the day progressed, word of Arthur's outlandish story spread around the village and the young Mr Moore, then in his early 20's was probably the butt of a few jokes.

But two days later, after the Titanic sank in mid-Atlantic in April 1912 with the loss of 1,523 lives, the news of the tragedy was officially cabled to London from New York. Arthur Moore's claim that he had received the SOS signal more than 1,000 miles away on his wireless equipment installed in the mill had been vindicated.

His exploits reached the press and soon he was taken on

board by a suitably impressed Guglielmo Marconi at his Marconi Wireless Telegraph Company.

An impressive model of the Titanic has been received by the leaders of Caerphilly County Borough Council when Howard Moore was present. Howard, nephew of Arthur who died in 1949 declared that the family was extremely proud of his Uncle's achievements saying that he was at the forefront of wireless telegraphy at that time. GW0LTH tells me that the mill is home to the Blackwood ARC with the special callsign GB2GGM (Gelli Groes Mill) which was last on the air 11 May.

PACTOR QRM

G3KEF (Tom) reports on the interference being suffered on 14058. My earlier information placed the offending station in the Azores but monitoring this traffic, Tom finds KD1RA (a mailbox frequently accessed by CU3BJ) comprising long lists of gear for sale including prices. KDIRA also forwards to other mailboxes in the US and blatently ignores cw already in progress. 14057.85 finds VE3HKK and K1LMJ also being logged several times in live QSO with CN8CG. Also lots of call-ins from various stations including NIURA and KILMJ whilst CN8CG frequently calls in and leaves traffic with K1LMJ. Tom surmises that the main root of the problem is US stations and if these could be shifted, then the problem would probably end. Wonder if the US contingent could do something about this via the ARRL?

The Insect Filter A variable bandwidth filter with a very narrow bandpass. Ideal for weak signals and poor band conditions. SHE for further details and special FISIS prices to: The Haven, Lound Rd., S. Dodson. BLUNDESTON, NR32 5AT G3PPD Tel: 0502 732322

THE STRAWBERRY BASKET

G0STR. Hi Bill. You will find more details of the kit in question within this months letter. Bill is off to Gran Canari (EA8) and the holiday chalet will be home to his QRP rig mainly on 40 and 20 metres. GOUKX Last years heart attack with bypass and Teflon patch on his ticker (does this make it a non-stick heart?) curtailed his operating for a while but he is now back on air and to avoid undue strain, will be working strictly rubber stamp style. **ZL2AOH**. Our prolific Ralph has completed his application for the Keymens Club of Japan award. Matching stations with prefectures was no small undertaking and aside from DXCC mixed and CW it is the only award he has tried for. Would like to include the Century amongst his targets but K7WF has thus far been his only FISTS contact. He estimates 350 years at this rate. Oooooh. GW4GCB. Peter has been 100% cw for the past 12 months mainly with his pal G4GBG and he plans a make over job on his antenna this year. Also has an eye on home brewing but her he talks of beer and not necessarily radio. Nowt wrong with that Peter. A most noble ambition! G0JZU. Ross was happy to work GB0ARM which provided him with more satisfaction than the 'Windmills on the air' event which appeared to be conducted exclusively in SSB. And, less than half a mile away, one of the latter was operating from a disused windmill. Grrr. G4BWJ. Harmonic was not invited to extend his 12 year commitment with the RAF and was only a small cog in the 10,000 comprising the tradesmans wheel. After the Minister responsible for the mass shedding lost his job, harmonic noted 'it couldn't happen to a nicer guy'. Has he removed tongue from cheek yet? EA3FWE. Jordi is henceforth recognised as EA3WC. A shorter title of course and I resist the temptation to offer a comment which may not be understood. Hi. GOILN. Hi Richard. The stuff you hear on 14080 (actually nearer 14079 though it is wide band) is not RTTY but a pactor, mail box. As far as we and most other countries in the world are 73/88 people.. stay sober de Geo

concerned, it lies outside the spectrum set aside by the bandplan but seemingly the Azores is a law unto itself. GOVQA. Julian has an interesting ob here since last year he was operating 80m on a G5RV/2 via a 'T' match ATU. Not as good he confesses as his current 80m quarter wave long wire via a home brewed 'Z' match and he is also contemplating tests with a home brewed mag loop. GOTBD. Terry is now also active /M and would welcome QSOs with fellow members. QRV between 3.550 and 3.563MHz but hastens to add that he has not yet perfected the dangerous art of sending and driving at the same time. From out of Houston, Brian and I logged a member doing just this with 16 wheels and I logged a returning FOC member who was doing it on the back roads having become bored with the challenge offered by the freeways..

G3TUX

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NOVICE ACTIVITY

I have had a suggestion that a limited version of the Century award (50 points) be made available for our Novice members bearing in mind a restricted frequency span and QRP. Actually, this would not be necessary if more of you were to scan the Novice bands periodically. I usually take a quick shufti up there myself when on 80m and put out the occasional CQ but find myself at the mercy of conditions. When the band is 'long skip', any Novice stations have to be local but this is still an excellent way of spreading the Gospel. 3770+ seems to be used also by a number of late G0 stations though it is often frustrating to find high speed cw activity mainly from Germany but also from other EU countries presumably running QRO.

ODDS N' ENDS

Found G3TTH and learned that the Leicester Club NFD station boasted no less than four FISTS members.

GW0SSG asked me for a listing on disc before I left for Dayton. This I did (on the very day before I left) but they never arrived at their destination. I suspect this is a rare event but something has gone sadly wrong because whenever such packages are sent through the post, they carry a sticker complete with return address warning that the package contains sensitive magnetic media.

If any members heard me at around 2100 on 80m on the 18th July, I apologise for my seeming lack of good manners. My patience is no more nor less stable than most people but struggling to copy a QRP signal who was barely above the noise, I was constantly harangued by a E. European station who called me consistently over the top of the QRP station despite the KN which should have told him that I was listening for a reply from the nominated station. I called him a lid and made it plain that I would not QSO him or any other station displaying such poor operating techniques. I was somewhat ashamed of myself afterwards for allowing myself to crack but there is surely a limit to any-ones patience.

Tammy's sensitive hooter came into good use when he was clearly fascinated by something in the clover speckled grass. It turned out to be a soft plastic purse cum wallet and I thought Wow... this is the day. I retrieved it, opened it up and surveyed the contents - just the remains of a blob of chewing gum, a large gap where a seam should have been and some six inches away, a lonely one pence coin. I pocketed the coin without a twinge of conscience but I still dream of the 10% cut when I find £10,000 in a paper bag. Like my visions of a one metre square steerable beam with 60db gain in the chosen direction however, the smoke has not yet settled. Hi.

FISTS CW CLUB

The following list is in two sections, one as NORTH AMERICA and the W6 AR other as UK-EUROPE-ASIA

KB3 AQL LEE

DEWEY

Edward C. Hayes, N7CFA 2628 Lilac St. Longview WA 98632 n7cfa@tdn.com

NORTH AMERICA

CARIBBEAN AREAS **CENTRAL & SOUTH AMERICA MEXICO, HAWAII**

		LAIOO, HATTAII	
KF5	A	JAMES	1919
WR4	A	JAMES HERB	3078
NCO	A	CHUCK	3365
			2093
KK7	AA	RAY MELISSA	2181
K I	ΑΛ.	NIC 1 D NA	3236
KA5	AAE	JIM	3257
TZO	BRII	DOD	2747
K B8	AAX AR	TONY	3289
KG9	AB	STEPHEN	2617
	ABE	HUGO	3448
№8	ABR	FRED	1470
AH8	AC	JOHN	1259
AB2	AC	JOHN CAROL FRANCES GRANT GEORGE JOE	2081
K 7	ACK	FRANCES	3097
K2	ACW	GRANT	2573
KD7	ADK	GEORGE	3017
N 2	ADP	JOE	3118
KIN6	AE	SMOKEY	3128
w 6	AEJ	BOB	3202
		DWIGHT	3105
KE1	AF	ABEL	2954
W 8	AFI	ED	2991
- N5	AFV	ALLEN	2168
K1	AG	RITT	2728
AD6	AG	MIKE	3242
KE 4	AGT	JIM	1581
WA2	AHH	PHIL	1988
	AHM	LEARD ALEX	1550
KC8	AHR	ALEX	2983
AE4	Ank AI	DANNY VIRGIL	2444
11.0	AT.	VIRGIL	2532
	AJ	DON	2786
K8		KEN	2544
KF8	AK	MICK	3060
KA7	AKK	BETH OSCAR	2084
KC 4	AKQ	OSCAR	2015
VE7	ALL	CLINTON	3066
		BILL	2163
AB0		PHIL	2364
AC5		BOB	2516
	AML	HAL	1930
KA8		TRISH	1453
	AN	RALPH	1484
WA5	ANE	DAN ALFIE	2908
			2755
K5	AO AO	PAT Canter	2138
N3		CARTER	2367
WO WTO	AP AD	MAC	1908
KI8	AP	GREG JOHN	2985 2107
K5 WB8	APB	JOHN JOHN	3126
KP4	APR		2548
KB7	AQC, AQD	PEDRO	2548 3478
KC8	AQJ	ROBERT BARB	2376
VCQ	ΑÕΩ	DAKD	2310

Membership Roster 7/2/97

3235 KC8 BOJ ED

3436 KB2 BOY STANLEY

	121	ARO	RICHARD	1580		DOI	CIADENCE	3000		CNI	TACK	2021
1		ART	KEN		AB2		CLARENCE	3008		CNL	JACK	2631
1				3456		BPH	RICH	3169	K0	CNS	RICK	3370
ı	1	AS	BILL	2164		BQI	BUD	2009		СО	\mathtt{BILL}	3119
П	AC4	AS	JIM	3321	KC8	BQN	JAKE	2663	N3	COR	DON	3221
1	W9	ATE	JACK	2523	KM4	BR	RON	1593	N8	CPA	STEVE	2904
_	KC2	AUH	HARRY	3085		BRD	RODNEY	1782	1	CPG	BRUCE	2340
7		AUJ	JOHN	3300	KJ7		MARK	2972	1	CPP	BRUCE	2075
ı	1	AUK	GARY	2779	1				1			
ł	I				1	BSC	AL	2069		CQ	EVERETT	2942
ı		AUM	SHEILA	1599		BSG	DON	2737		CQA	BUCK	2609
		AUM	JOHN	3088	K8	BTH	WAYNE	1465	KM5	CS	WATT	2559
_	WB0	AUQ	BOB	1905	N3	BTM	JOHN	1574	VA2	CS	CORAL	2579
	WA9	AUW	BILL	2066	KC5	BUB	CHARLENE	1749	WA3	CSF	JOE	1271
1	AA3	AV	EUGENE	1220	1	BV	ВОВ	2640		CSJ	CHUCK	3214
	KU4		DICK	2731	1	BVK	ED	2495				
	км5		SCOTT	3042						CSL	TOM	2637
	1					BVS	HAROLD	2091		CTA	DICK	2643
	t .	AVC	VIC	1742	N2	BW	BARRY	2591	KE6	CTI	MATT	3371
	KB3	AVS	CHARLES	2480	N9	BWG	DON	1015	VE7	CTW	KEN	3138
	K4	AVX	JOHN	2307	W7	BWI	LOREN	2475	W5	CTZ	HARRY	3239
	AA3	AW	DANNY	2482		BWO	AARON	3145	1	CUD	STEVE	2986
	KU4		BEN	2674	KS4		ROGER	1403	1	CUR	TED	3168
		AW	GARY	3310								
	1					BXE	MARTIN	2443	1	CV	SCOTT	1502
		AWI	ERNIE	3302		BXK	STEVE	2917	1	CVC	BOB	3324
		AWR	FORREST	3425		BXO	FRANK	2314	KA8	CVH	JOE	2979
		AX	TOM	2996	WD6	BYH	ROBERT	3170	ZP6	CW	DOUGLAS	1771
,	KG9	ΑX	RON	3296	W9	BYH	BILL	3394	w3	CW	BOB	2491
	WD4	AXJ	MARTY	2668		BYP	PETE	3410	WA6		ROB	3293
	KI0	AY	CHUCK	2414		BZM	BILL	2409		CWR	FRED	2570
		AYQ	JIM	1230								3263
	AE4		RAY		WZ8		NANCY	0379		CX	GLEN	
				1561	WR9		RON	2711		CX	ALAN	3301
		AZZ	PETER	3314	WB8		RAY	2739		CYG	JOE	1471
	NC2		MARTY	1028	WJO		JIM	2910	KI8	CZ	TOM	2360
	WB0		LARRY	2916	MN3	С	MAC	2932	N3	CZB	ron ,	2392
	KX8	В	CHUCK	2987	NEO	С	KEN	3014	WA4	CZK	GARLAND	2783
	KR1	В	BOB	3442	WC6		CHUCK	3360		CZU	DWIGHT	2430
	KC8	BAA	JIM	2938	NN6		MIKE	3443	NU7		RANDY	1796
		BAG	DINK	2960	NL7		JIM	3452	WB2		PETER	2071
		BAI	JOHN	2158								
					1	CAW	NATE	2664	AF7		BILL	2690
		BAP	ROB	2931		СВ	ÇHRIS	3471	KC4		\mathtt{BILL}	2709
		BAZ	BUD	2998	KA3	CBC	ERNEST	3230	wn7	D	DON	2759
	KE1	BB	FRED	1536	W9	CBT	DICK	3417	KC8	D	DENNY	3132
	KB1	BBI	LOUISE	1985	W 9	CC	LARRY	1714	KK6	D	DOUG	3187
	VE1	BBW	DAVE	2919	WB1	CCG	DONNA	2310	ww8	D	TOM	3264
	AB2	BC	JIM	2526		CDC	DOUG	2437	VE3		AL	2757
		BCH	JIM	2487	1	CDI	SAM	2994	KG8		XE1 GEORGE	1473
		BCL	GAIL	2438	1					DAN		3421
	K2		CARL	2581		CFA	ED	1402			DAN	
						CFF	CARL	3465	KA7		MIKE	1972
	AB0		JON	2474		CFL	CHARLES	3248	K3		BILL	1902
		BFQ	ERIC	1786		CFZ	RUSS	0294		DCF		2641
			CARL	1431		CG	GEORGE	1006		DCU	DAVE	2398
	AC5		BILL	2598		CG	NORMA	2034	W6	DDB	BILL	1525
	W4	BGG	GATOR	3298	KC8	CHR	ROY	3047	KD4	DDI	PAUL	1512
	KF4	BHR	JOHN	1991		CI	JOE	1738		DEA	DON	3470
	N5		GARY	2029		CIB	RAY	1922		DER	ART	2023
	KG2		WARREN	2671			KARL	3422		DEW	DON	1406
		BIC	RICHARD	2059			JOHN					
						CIS		0531	KU4		KERRY	2959
		BIJ	VINCE	0905		CJQ	TED	2177	K6		DENNIS	3076
	AA9		TOM	2601	VA2		GARY	2578	N3	DF	NEIL	3328
	W2		BARRY(DA2BM			CK	CRAIG	3367	N2	DFT	GEORGE	2741
		BKC	TREVOR(VE3BMC	3033	KA8	CKL	MEL	1768	K7	DFW	ROLYNN	1983
	W8	\mathbf{BL}	BRIAN	1221	КЗ	СКО	BOB	2483	AA1	DG	ROGER .	2971
	N4		вов	2587	1	CKT	GARY	2484	KC1		DAVE	1210
		BM	STEVE	2973		CKV	FRED	2745		DIX	STEVE	1710
		BMC	TREVOR (VE7BKC			CKX	PATRICK	2050		DIY	MILL	2798
		BMI	BOB	3144		CKX	DOUG	2900	NP2		DEBBIE	1489
		BMT	JAMES	3185		CL	CHUCK	2077	KP4		WILLIAM	1576
		BMW	BOB	1539		$C\Gamma$	CARL	3477	KC9		HERB	1745
	KJ5	BN	GORDON	1503	WP4	CLS	MILLIE	2541	NO	DJD	SID	2435

3391 TI5 CMA CARMELINA 1598 K4 CMH JIM

2556

3094

FISTS	S CW C	LUB			Mer	nbership I	Roste	er 7	//2/97				
WB7 DJR	CARL	2004	KE1	EJ	GLENN	278 4	KK5	FO	WAYNE	2447	W6 GSE	ED	3107
N5 DJY	LON	2320	KM5	EJ	JD	3393	KM4	FO	DWIGHT	3316	KN2 GSJ	GEORGE	1538
N6 DK	DICK	3395	WD4	EKB	DAVE	3000	W4	FOK	JIM	3272	K7 GT	GRANT	3222
NO DKE	PETE	2037	WA1	EKR	FRED	2743	K4	FOM	ARMON	2010	KD4 GTM	KAREN	2407
KE6 DKH	WILLIE	2720	KI5	EL	FRED	1229	AA8	FQ	FRED	1495	W1 GU	MICHELLE	3438
K5 DL	JOHN	2768	KT4	EL	WALT	3165	K7	FQ	MIKE	2794	K1 GUG	DICK	2965
VE3 DLH	JERRY	3292	N2	ELW	LARRY	1469	VE3	FS	BILL	1240	KF6 GUH	BECKY	2961
NO DLJ	DAVID	1419	AA0	EM	JOHN	2094	N3	FSC	GREG	2044	WO GV	GERRY	1931
K5 DMC	JERRY	2571	W6	EMD	DAVE	2095		FSF	BONNIE	2975	VE7 GVC	CAVE	3238
WD9 DMM	MATT	1412		EMT	ROY	3249		FU	KEN	2193	K2 GVC	WILLIAM	3243
WB5 DMM	NEIL	1942		EN	KEN -	0927	KF9		CARL	2362	K6 GVG	TOY	3026
KF4 DNL	AL	2577	AD4		GEORGE	1754	KP4		VIRGIE	2540	NO GVY	\mathtt{BILL}	2676
N1 DNM	GEORGE	1445	KF9		ERIK	3217	1	FU	TIM	2574	KB9 GVY	BOB	3290
W8 DO	DAVE	2512		EPA	AL	3101	1	FVE	CRAIG	1510	KC5 GXC	LAWRENCE	2032
K2 DO K7 DOE	DI ANE PHIL	3330 3277		EPD	SAM	2521	1	FVL	JOHN	1585	VE3 GXU	DUNCAN	3092
N7 DOH	PAUL	3457	AB5	EQA	MEL DAN	2 4 92 2 4 69	NP4	FW	AL HECTOR	1926 2531	KA9 GXZ KE4 GYU	FRITZ GUY	3054 2649
W3 DP	DICK	3464		ERA	OLIVE	0743	i .	FWZ	TERRY	3204	N4 GYX	DOC	2070
KF4 DPS	JIM	3447		ERB	WAYNE	3109		FX	BEN	1011	KF9 GZ	MARK	2400
WB8 DPZ	MARV	2323		ERU	WES	2099		FXK	JACK	0918	WO GZ	GENE	3052
K5 DQ	PEGGY	1921	KQ6		JOHN	2406	1	FYO	BILL	1248	KAO GZO	ROB	2336
WA4 DQU	KENT	2449	. ~	ESX	JOHN	1565		FZI	PHYLLISAN	1767	WK1 H	ARNIE	1027
KB8 DRQ	DAVE	2477	WD4		JEFF	2769		FZW	RAY	2604	AF9 H	PATTI	1785
WD9 DSP	SHARON	2772	K1	ETN	AUSTIN	2072	NS2	G	HELEN	0393	NN2 H	KAY	2424
WD4 DSS	FRANK	1994	N6	EV	PAUL	1407	WI2	G	ANNE	3143	NS2 H	DICK	2508
KM 5 DT	BEN	2128	AE4	EW	TERRY	2653	WW2	G	WENDALL	3177	WI3 H	MARK	2614
ко6 DT	\mathtt{BILL}	2 4 21	KQ6		BARNABY	2707	N6	GA	CAM	1920	кв4 нан	GENE	3423
AC4 DT	NEAL	2993		EXI	JOHN	2760	N8	GA	GARY	2385	N3 HAM	JERRY	3402
AA3 DU	MICHAEL	1400	ı	EYE	CARL	2629		GA.	GEORGE	3313	KF4 HAW	DAVID	2726
N3 DU	TIM	3368		EYM	BILL	0655		GAG	TOM	3278	KE4 HBE	PAUL	1923
KB7 DUG	KEN	2672		EZ	RANDY	1718		GAT	KEN	3069	WB1 HBE	JOHN	2061
KC5 DUI	BOB	1534	i	EZG	VINCE	0315		GB	DON	2108	N3 HBJ	GEORGE	2780
W 3 DV	WOODWARDVII AMATEUR R.		WA0 WY6		MARK PETE	1736 2017	1	GBE GBM	MIKE MIKE	1911 3311	WB8 HBJ WD0 HBW	ROGER DICK	2947 4 3380
WB8 DWD	JIM	3459	WT7		TERRY	2542		GC	GREG	1578	WDO HCO	BIZ	1929
VE7 DWG	DAVE	3197	AD4		BILL	2012		GCA	DAVE	2610	N2 HCU	MIKE	1735
WA8 DXB	JIM	2160		FA	FRANK	2036		GCB	JOE	1956	K2 HD	ED	2790
W4 DXB	REED	2746	W3	FAF	JOHN•	2590	KC8	GCD	JO HN	3146	KB2 HDJ	RAY	2901
W3 DXK	HARRY	2710	VE3	FAL	FRED	2337	KF6	GCZ	HAP	3463	KB7 HDP	PAUL	3191
WN4 DXL	LARRY	3345		FAX	ALAN	2192	1	GD	GERALD	1019	KG9 HE	JOHN	2501
KC4 DY KE1 DY	GORDON SAM	1588 2689		FB	HOWARD	1024	KK7		ERIN	3218	WB2 HEK	BART	3348
AA8 DY	BILLY	2763	1	FBE	ROYCE	3279	1	GEC	GLEN	3158	NO HFF	BILL	1239
W8 DYF	JOE	2024		FBY FCC	TED DON	2479 3440	N4	GEK GEL	CHET BUD	3351 2 41 7	KG2 HG	PAT	3 434 2718
XE1 DYO	JOSE	2410		FCO	ED	3190	AC5		LEE	2509	N8 HG	RICK H AN K	3016
K6 DZY	WB	2515		FD	JOHN	2420	1	GG	BOB	2766	ко ннв	TOM	3441
WO8 E	IRENE	0656			GENE				AL	3385	ксв нин		3390
NS3 E	ED	0909		FDV	JIM	1959		GHI	GERI	2448	KE4 HIA		1795
WU9 E	PHIL	1449		FDX	DONALD	3403	KA2	GHO	ED	3195	W1 HIJ	BILL	3178
KJ8 E	ERNIE	3074		FEP	JON	2127	KF9		BROCK	2451	AA1 HJ	DAVE	1569
AA5 EA WA0 EAF	WALLY	1969	1	FF	KEN	1225		GΙ	LARRY	2630	W3 HK	GEORGE	1420
	GARY EVERETT	3021 3120		FGT	DENNIS	2703		GJV		1017	P43 HK	HUBERT	2989
N4 EC	ED	3435		FGV	JIGGS	1286		GKR	TERRY	3104	AC5 HL	GUY	2333
KC8 ECG		2990	KG2	FHK	KENNY	2352 2956	KL7	GKX	"RJ" "BOBBI" GORDON	2144	N6 HL K4 HL	HARVEY LES	2912 3081
KC8 ECI	LU NA	2984		FHP	BOB	2943	KT4		CHUCK	2558	K1 HLG	BILL	3374
WN7 ECL	TOM	3274	AC5		ED	1499	1	GO	TONY	3354	N3 HLM	MIKE	1480
N2 ED	ED	2454			BILL	2001	1	G00	TONY	0864	KC5 HLO	ВОВ	3474
K2 EF	FRANK	2583		FJZ	GENE	2388	NP2		GREG	1292	K5 HLR	JOE	1962
K7 EF	GEORGE	3189	KB1	FK	AL	0916	W4	GP	MARK	2941	WB5 HLR	DOUG	2100
AA3 EG	LEN	2401			BOB	2646			MOOSE	2652	W5 HNS	HENRY	3010
N3 EG	EARL	2565	KE3		PHIL	3117	AL7		GENO	1984	AA1 HO	ARTHUR	1283
KIO EG	PETER	2735		FLN		2049			STAN	2467	AA3 HO	ARNOLD	2661
KA8 EGS AC5 EH	RICK D WA IN	2715 3129			BILL	3032			NORMAN	2538	N5 HOG	JIM	2436
KQ6 EH	PAUL	3429	KI0		GENE	2349	AC 6		JAY	2097	N1 HOG	BOB	3142
K8 EHE	TERRY	3152	AC4	FMC FN	RICK DAVE	2767 1021	1	GRF	GEORGE	1783 2688	N7 HOK		3237
KF9 EI	WOODY	3040		FN	BOB	2 45 5		GRM GRN	KEN HERB		KE4 HOS	RAY ED	2028 3 4 27
N7 EIF		3280		FO	CHUCK	1716		GS	GLENN			FISTS CW C	
			•				•			-	•		

FI	STS	S CW CLI	UB			Membe	ership l	Roste	er 7	1/2/97					
		OF MICHIGAN		W7	JAT	VERN	1002	KA2	KDJ	GARY	1792	AB7	LK	GARY	1596
	HRS	PETE	1206	KB2	JAX	LYLE	2936	KB8	KEJ	CHER	1511	VA3	LK	LARRY	2752
	HS	PHIL	3317		JAZ	JIM	2058	1	KEW	KEN	1924		LKL	B.W.	2335
	HSD	ART	1269		JBD	MIKE	2404	AA1		JOE	1734		LKS	GEORGE	1235
	HSN	FRED	2317	i	JBW	MITCH	3206	KK4		BILL	2390	WH6		CHUCK	2596
K9	HT	GEORGE	1730		JCB	ROB	3034	1	KFJ	GARIE	1732	•	LLZ	BUDD	2053
	HTV	DAVE CHRIS	3389 3055	KG9	JCH	JERRY	2412		KFZ KGB	BUD	2567 2380	AA3 KM4		COLIN	1948 2518
	HU	JOHN	3166	ı	JD	JERRY JACK	2176 3267	1	KGI	JOYCE FRANK	3061	KK5		JIM WES	3469
AA1		ZOEL	1291		JDP	ROD	2052	AA9		JAY	2377		LMC	KIT	2055
KG9		JOHN	1750	ı	JEF	JEFF .	3100		KHM	KENNY	1288		LMV	GLENN	2724
KK4		JULIUS	1426		JEF	MAC	3411	1	KJL	KEN	2167		LNY	JULIO	2396
VE7	HWR	GERRY	3207	WAO	JEN	RON	3009		KJU	KEN	3329	KG2		ROLAND	2980
K4	MXH	GEORGE	2030	W6	JEP	MARIE	2007	KG9	KK	RAY	3164	KB8	roi	FRANCIS	2062
	MXH	PETER	2329		JEV	ERIC 7J1AYH		1	KLM	FRANK	3232		LOK		2764
	HZD	WILLARD	2673		JFO	RAND	2679		KN	KEVIN	3089		LOZ	HARRY	2315
	HZH	DAVE	2612	AE4		MIKE	2332	AA0		MARY	3183		LPF	JOE	2463
	HZO	FRED	2179	AC5		TOM	2507		KO	RICK	3362		LPQ	JIM	2429
AE8 KX9		KEN ALEX	1913 2569	KS4	JHB	JIM GARY	3159 1774	KD5	KOD	HARRY JIM	2935 3220		LQ	CHUCK	1477 2042
NN6		WILLIAM	3116		JIM	MARGIE	1231		KQJ	KEN	1907		LRP	ROB	3455
AB7		ROBERT	2539		JIW	DON	1515	1	KQL	GARY	2534	AA9		JIM	2198
AC5		DOC	3284		JIY	MIKE	1282	KG0		ELIZABETH	1592		LSN	LORILLE	2014
KK5	ΙB	DARRYL	2416		JJH	WYATT	1018	AA3		BRUCE	3308	9	LSO	RICH	1990
K7	IB	HARRY	3255	WB4	$\mathbf{J}\mathbf{J}\mathbf{J}$	ALAN	2433	K B8	KRD	DON	1752	КВ9	LSZ	LEE	2428
K8	IDN	STEVE	2441	WB3	J JK	TOM	3127	W5	KRP	LEO	3080	K3	LT	LARRY	2008
KJ5		TOM	2083		JJR	MARK	3265		KRV	ED	2964		LT	GEORGE	3227
KS4		BEN	3087		JKY	MIKE	2626	KF8		STEVE	3141		LU	ULISES (TI5NW)	
	IEU	CHARLES	2051	KI7		LARRY	3181		KSS	RALPH	1417	,	LUH		1932
	IFB IFF	ELAINE	2026 0011		JLF	DON	1979 3268	AB7		KEN	1755	1		PAUL	3020 2999
	IG	ESTHER RICH	3306	KG2	JLI	JEFF JERRY	1904		KUG KUO	BERNIE STEVE	3037 3275		LUY	HACK KEITH	2722
KĮ4		FRANK	1938		JMA	JOHN	3454	WL7		GARY	2338	l	LVP	BILL	3247
	IH	WARREN	3408		JMJ	TOM	2921		KV	BENNY	2397		LWV	LARRY '	2589
	IHM	WES		KD8		RANDY	2543		KVA	HORACE	2408	AA3		BRUCE	2525
KA1	ΙΙQ	STAN	1974	WD8	JOH	JOHN	2749	кв9	KWL	JOHN	3340	W2	LYH	BOB	2758
	IIS	LARRY			JOL	PARKER	3043		KWW	JOHN	2375		LYM	JACKIE	3444
	IIX	HOWARD	2700		JPM	BOB	2997	кв7		GAVIN	2382		LYR	JOHN	2312
	IJE	"TM"	3357		JPR	BILL	3215	I	KX	BOB	3046	NT1		ARTHUR	1222
AA1	IJR	KARL	1013		JRL	DON	2470	KE4		JIM	3241	KJ8		RODGER	1464
	IKS	ERNIE PAUL	2644 3334	KF4 N4		BOB JOHN	3079 2781		KX KXJ	BÎLL BILL	3 4 37 2116	NU1 WX7		D AN P AT RICK	1722 2 4 93
	ILN	DENNIS	3233		JSK	SCOTT	2561		KYO	TONY	2378	KC0		LARRY	2528
	IMO	JORDY		KE4		JACK	2754	WX3		MIKE	1256	KS0		DICK	3067
	INB	GEORGE	2000		JTE	DEL	2426	WA2		ANDREW	1262	NJ1		DICK	3282
N 3	INT	BILL	2659	KB0	JTS	BILL	1586	AI9	L	JESSE	1772		MA	BILL	2623
W8		BOB	2692			BERT		AE2		JOSH				DARRYL	2442
AA0				AC5		JIM		W08		RICK	2188			MARK	1579
K9				AA3		CRAIG		WSO		JESS	2928	AA3		CRAIG	2391
N4			2572	K8		JIM	2372	NN3		ROBIN	3414		MDD	JOHN	1957
	IQT IRE	JIM JOHN	1241 1906		JW JWI	STEVE CLYDE	3344 3051	KJ7	LBC	PAUL JOE	2 4 53 1558		ME E	DWAINE DALE	1466 1425
		WAYNE	2761		JWL	DICK	2510		LEC	JIM	3063	l .	MEG	RICH	1790
KG0		BILL	3341		JWR	DAN	3375		LEE	LEE	0739	K4		GARY	2580
		ALAN	1038		JXW	JIM	2325		LEN	LEN			MFE	EURIQUE	3106
KE4	ITN	TOM		WB6	JXY	TED	3209	K8	LEN	PATRICK	1494	N1	MFR	GARY	1299
N1	ITW	DICK	1492	K2		STEVE	3432	KE8	LF	LARRY	2606	и8	MFY	HAL	2473
	IUI	MERT		кв9	JYN	W.INDIANA D.			LF	ALAN	3027	N8		MARTY	1760
	IVG	GEORGE	3024	עדעג	TO	EXPERIMENTERS				JEREMY		AE4		BARBARA	2018
N8		RIC		KK5	JZ JZD	LOWELL LOU	3299 2962			KERM	1794	KJ5		DONALD	2060
AE4 KD2		RICK FRANK	2 4 99 3335	NN9		PETE	2047	AB4	LFR		2464 2 4 59	AB7	MGS	DICK DAVID	2101 2 49 8
	IXR			NS7		RICH	3175			RICHARD DAVE	2459 1050	VP2		LAWION	2554
	IXT	KEN		AA1		LON	2022	9		RALPH	0794	Į.	MHV	CONRAD	1295
	IYH	JIM		KT4		RICK	2458			GERALD	2143	AA8		GENE	0914
кхз		BUD	2513		KCJ	ANDY	2527			JOHN	1460	KC1		JOHN	1491
AA1	JA	YUZURU	1543	AC4		HARRY	3211			NATE	2039		MIB	CHRIS	2744
		DWIGHT		AA3		CHRIS	3240			JAY			IIM		3347
KF6	JAO	JACQUI	2330	K3	KDC	JIM	3112	AA2	LΚ	BRIAN	1042	W 7	MIO	ERMON	2085

F	SŢS	S CW CLU	UB			Membe	ership I	Roste	er 7	7/2/97					
VE3	MIQ	BILL	3025	AA2	NL	RICH	3342	кв2	OIC	BILL	2902	KE4	PPI	PETE	1799
WD4	MIS	JOHN	3167	KC5	NLD	BRAD	2465	KE6	010	DORTHEA	3364	KC5	PPO	GARY	2924
WAO	MJD	DUANE	3156	N8	NLE	JIM ·	1756	WA2	OJN	WILL	2468	AA8	PQ	NEAL	2389
VE2	MJE	MIKE	2156	N8	NLK	DAVE	1455	W3	OKN	MERLE	1281	N5	PRF	JOHN	2704
KA2	MJV	CURT	2020	K3	NLT	RUSS	3273	NO	oks	MARK	3212	N1	PΤ	DAVID	2560
KF4	MKB	BILL	3359	N1	NM	AL	2399	AA1	$oldsymbol{L}$	BRUCE	1966	WA3	PTY	AL	3151
N1	MKE	GEORGE	3121	AL7	NM	ART	2680	W6	OLD	DICK	1521	K7	PU	KEN	2354
KC5	MLV	JAY	2918	WO	NMB	PAUL	2013	W1	OLK	RALPH	3466	KD4	PUP	JERRY	1946
N6	MLW	DAVID	1263	WB4	NNC	ALBY	2909	AE4	OM	DAVE	0719	N3	PUR	MIKE	3131
N6	MM	HARVEY	219 4	N3	NNH	ANDY	1428	KB7	OMU	JOHN	2199	KB2	PVC	KEITH	3071
KE8	MM	FRANK	2992	WA8	NNQ	RICH	2686	KF2	ON	WILLIAM	1570	N1	PVP	MARINO	1770
KB8	MMA	YVONNE	3461	KD6	NOF	BUD	2321	WO	ONU	JIM	2445	KD8	PW	CURT	2065
WA7	MMG	ART	2322		NOX	DICK	2978		MOO	SAM	1582		PWJ	BILL	3472
	MMO	MIKE	3228		NPL	PAUL	3399	•	OPV	JERRY	2974		PWP	PAUL	2153
	MMQ	GEORGE (GOTUA		i	NQC	BILL	2634		OPW	EARL	1797	i	PYE	ED	3353
	MNH	JIM	2196	KJ7		STEVE	1530	1	OQF	CHARLIE	1478	1	PYP	SCOTT	2485
	MNN	STEVE	3150	AA0		RICK	1704	KT4		RICHARD	2691	1	PZE	DICK	3451
	MOA	KEY	2456	1	NR	TOM	3458	l .	ORH	JIM	3378	AC4	_	PHIL	3123
	MON	DON	3140		NRB	JERE	2439	AD4		KEN @ W9YB	1787	WN6		AL	3134
	MP	BILL	3073	KJ7		PHIL	2602	KI0		KEVIN	2547	t	QA	RONALD	1504
	MR	BRAD	3377		NSL	TIM	3139	KS4		JIMMY	1903	ž.	QBC	JOHN	2796
	MSG	PAUL	2628	1	NSN	PETER	3201 3396	ł	OT	ANDY	2613 1254	ł	QBR	DOC	1996 2750
	MSM	BARRY	2681 2725	KE2	NSR	BOB MICHAEL	1031	K8	OUA	PETE CLEARFIELD	2797		QBU QCE	DON	3288
	MSM MTJ	DAVÉ CLARENCE	3326		NT	GURNEE	1955	KC /	OUC	SYRACUSE E.GE			QCE	JOHN DON	3318
AA1		CRIS	1928	AC6		ERIC	2621	N3	OUE	JOHN	2011	KT4	_	JOHN	2732
KF2		OTTO	2328	1	NT	MIKE	2657	1	OUH	PAULETTE	2368	1	QBE	AL	1980
AA9		MARK	2576	1	NT	BRUCE (SESES	3325		OVT	ROBERT	1472	1	QEN	RICK	1971
	MVL	STEVE	2357		NTC	MIKE	1725		OW	JIM	3003		QEX	JOHN	2316
	MVN	ERNEST	1527		NTD	CHAS	3186	W5	OW	BEVERLY	3188			PETE	2363
	MVU	KIM	1909	i	NTE	BILL	1744	K8	OW	ARLAN	3333	KD1		BRUCE	1227
	MVY	GENE	3270		NTS	ED	2087	WB8	OWM	SKIP	2415	AB7		TERRY	2551
	MVZ	JUDY	1973		NU	JASON	2545	K4	OWN	SHERRILL	1701		QGI	JO ANNE	3269
KT4	MX	WALT	3339	KC7	NUP	KELLY	2432	W6	OWP	BART	3372	кв8	QGV	HOMER	2619
	MXH	KEVIN	2592	1	NUT	RICHARD	3115	KJ7	OX	BRIAN	1575		QIB	WALT	. 3287
W7	MXQ	ROD	3163	КВ6	NUY	WALTER	2953	KA1		WAYNE	2489	K4	QIL	HENRY	2137
W 9	MYZ	AL	2773	N9	NVV	LEE	1728	1	OXZ	ROGER	2926	KC5	QIQ	KEITH	2946
KB9	MZK	DAVE	3 4 06	AC4	NW	RICHARD	3108	1	ozs	MARTY	2650	VE1	QJ	MAURICE	3176
NU4	N	DAVE	2115	N3	NY	JOE	2025		ozv	ROSE MARY	3315			FRED	3231
MM3	N	RICH	2504	WA5	NYG	RICH	2607	AE4		ELLIOTT	1788		QJT	ED	2304
KB1		JERRY	2582	1	NZP	BILL	0911	WK3		HERMAN	2353	1	QJZ	TOM	2425
NU3		CHARLIE	2756	WZ0		RICHARD	1526	WJ4		RANDY	2361		QKR	LOU	3084
K8	NA	TED	1415	AE3		PACKY	3136	NI6		PAUL MARC	3153 3160		QLF	MARGIE	1533
AE4		JIMMY	2190	1	OA	MITCH	1467	KE 6		WALTER	3259		QLH	DAVID	3387
AA9		LYNN	3349		OAR	CHUCK	3019	WD3		LARRY	3294	1		RICHARD	1700
	NAF	FRANK	2431		OBI	DALE	2929		PA	LUIS		AC6		CLAIRE	1992
	NAY		1981 300 4		OBK	MICHAEL	1481 3098	N3	PAR	HANK	2514		QQ	BOB TERRY	2111 2568
	NBI NBM	STEVE PAUL			ocs			KB7	PAD	MARION	3102		000 000	JOHN	3184
AF4		TOM	1741		ocv		1508			HOWARD	3075		QOP	LEE	2977
	NC	WALDO	3356			FRED	2309			SONIA	3006		QR	BILL	1252
	NCY		3252			MIKE	1947			FRANK	3430		QR	RICK	2662
	ND	PAT	2669		OEL	SHEL	3157	W8	PBO	ART	0866	AE4		HARRY	2939
	NDX		1784		OEM	CHARLES	2599	WA6	PBY	D AN	2949		QŪ	DAVE	2427
	NF	PAM	3072		OF	DAVE	1214	AD4		JI MM Y	2346		QVB	JOHN	1047
	NFT	BILL	2624		OFG	JOE	2481			BOB	1733	KB0	QVB	RICHARD	1584
	NGB	CHUCK	3286		OFN	CHARLIE	2678	KC 4	PFU	JOHN	2187		QWJ	TED	2490
KB9	NGF	MIKE	2585	W4	OGG	DAVE	2907	K2		PHIL	2995	VE6		DWAYNE	3130
N1	NGM	norman	1273	N9	OGI	STEWART	2308	KF2		NICK	3199	KF2	QY	CHET	1278
KE4	NGS	DAVID	2373	KE4	OGI	ED	2958			TIM	2705	N1	QY	RON	2968
	NGS	JACK	3419		OGV		100,		PHO		3320		QYR		2488
W4	NJK	CHARLES	0908			LARRY		KJ5		STEVE	2566	KB0	QΖ	MARTIN	1780
		KEITH	2925		ОН	GEORGE	2130	AA8		JEFF	3401		QZB		1934
	NK	RUSS	2906			BILL	1737	1		VITO	3124		QZQ		2636
	NK	BOB	3208		OHF		1523		PKI	LARRY	2748	NJ8		RICHARD	2067
		ARLEY	1986			DONNA			PLW		2348	NY3		BILL	2452
	NKD		1987		OHQ	JOHN	3210		PM DM	JOE	1268	NF7		DON	2734
	NKE		0818			BILL	2149	N6	POC	GREG	1568 3366	WIO		TROY	3154
W6	NKR	М.Н	3295	JKC7	OIA	KOR	3193	Lyno	FUC	ADAM	2200	AH7	ĸ	MIKE	3225

FIS	STS	S CW CI	LUB			Men	nbership]	Roste	er 7	7/2/97				
WB2 F	RAR	RICH	2126	WA6	SBB	GALEN	2394		TCT	BERNIE	1773	W7 UDZ	DEL	2064
N8 F		WAYNE	2716		SBN	FRANK	1496		TCY	RICK	3023	KF8 UE	AL	1743
N1 F	RAY	CHARLES	1591	кв8	SBW	CHUCK	2038	KC1		PAT	2620	KT4 UE	KEITH	3256
VY2 F		DICK	1410	AA9		CHUCK	3376	VE1	TD	E.J.	3276	WB2 UEC		3114
W1 F		BOB	2682	AA9		JOHN	2306	N8	TDE	JOHN	2313	K7 UF	BILL	3122
WA6 F		JOE	2665	WB8		JACK	3322	W5	TEN	WADE	2723	WA5 UFH		2922
W2 F KD4 F	RCY	RICH DAVE	3415	WL7		CHAS	2350	KE6		DALE	3200	WA1 UFO		2027
VE5 F		BOB	3244 0907	N3 N1	SFA	BILL STEVE	2651 1 4 50	AB4 KC5	TH	DEL	2106	KB7 UFS		1457
N7 F		RD	2714	1	SGI	BILL	2319	N8		JOHN JOE	2795 1016	K8 UGL N1 UGT		2172 2575
KC5 F		CHARLIE	3428	1	SHE	DORTHA	2082	1	TIF	JUNE	2006	KC5 UGX		3337
KD6 F	RDO	GLEN	2788	1	SHK	JIM	3012	VE3		DAVID	3049	W1 UI	JERRY	2675
K4 F		BOB	1264	N4	SI	ROD	2358	N4	TJL	JOHN	3297	AD4 UI	KAREN	3111
	RE	JIM	2776	1	SIA	LARRY	2300	W5	TJW	BILL	2057	N4 UIQ	JOHN	3219
	REL	BEN	1976		SIA	JIM	3323	AB7	TK	RANDY	3251	Me nlx		3002
N2 P N3 P	REM	RAY JOHN	23 4 2 2937	KC7		MELODY	3093	AA8	TK	EVAN	3327	N8 UJZ		1571
KC5 R		ARCHIE	2595	N1 KA2		DON JACK	2557 3363		TLC TMR	CRAIG ESTHER	3091 3039	KI5 UK	HARRY	2182
	RFR	DON	2462	KC7		BRUCE	3250	M8	TMS	ART	2184	KB2 UKF	STAN JOE	2934 2639
	RG	KEN	1556	KE4		JIM	2505	AA5		BILL	2519	VE3 UKU		3379
KF2 R	₹G	GEORGE	2043	N1 :		CAROLYN	3261	I .	TNN	DEAN	3245	KE4 UKX		2079
KC5 R		PAUL	3155	K4 :	SL	SCOTT	2933	WA4	TNV	CLAY	2450	KE4 UKY		2341
	RHG	SARA	1418	N2 :		BOB	2658	1		STAN	2695	KB2 ULL	TOM	2174
	RHM	JOE	2717	N3 :		RICH	2165	1		DAN	2713	K2 ULZ	BRUCE	207€
KG0 R		CHARLIE CHUCK	1 4 82 2982	AA2 : AB7 :		BOB	2434	1	TOJ	MARVIN	3224	KE8 UM	MURRAY	1518
	RIQ	GARY	2359	N1		JIM HENRY	3171 2706	KF2	TOY	KEVIN	2461	KJ7 UN	LAURA	2785
KB7 R		DWAIN	2040	WA5		GILLY	2791			RICK TED	2191 2 4 03	K1 UNQ WA5 UNY		1218 3304
N9 R		RUSS	2393	WA7		DICK	2553	W1		TOM	3312	AA9 UO	JIM	3460
AA8 R	₹J	DUANE	2413	K5 .		CARL	2782			ED	2605	VE3 UOL		1542
AB7 R		MARSHA	2564	KC5	SOC	VICKY	3095	VE3	TQE	BOB	3194	VE3 UOL		1542
	łJ	ROY	3137	NO:		BEN	3086		TR	TOM	2387	N8 noo	JOYCE	2633
	RK	TONY	1424	KI5		KEN	3059		TRK	STEVE	1915	W4 UOR		3338
AB7 R KC7 R	KE KE	GARY DENNIS	2457 3070	N9 :		ALLAN KURT	3453		TSO	CHUCK	2730	KG8 UQ	JIM	1705
W3 R		RL	2698	K6		ALAN	3352 2536	KO4	TTL	STEVE JAY	3180 2740	W8 UQ	RON	2727 2355
	UMD	CHAS	2593	AA9		JOHN	1483		TTT	SHEILA	2078	KJ7 US	CHRIS PRESTON	3350
4	RNL	LB	2600	K4		GEORGE	3090		TTY	ВОВ	3418	KE4 USA		2045
N6 R	RNP	ALAN	3147	N9 :	SSG	DAVE	2365	KF9	TU	GREG	1228	KC6 UTA		3226
	RNV	FRANK	1950	KC7		ED	3038		TUF	$\cdot \mathtt{BILL}$	1430	KA2 UTF	GARY	2503
	10	FRANK	2967	KT4		ARNIE	2940		TVZ	BOB	2384	VA3 UU	JACK	2517
	ROA ROG	DAN	3407 0924	KA1		BEN	2113	1	TW	TED	3386	AA8 UU	JOHN	3343
_	OV	KEN JIM	3266`	KB2 :		JOHN ED	1967 2395	W4	TWB TWJ	RAY DAVE	1487 1435	KC4 UUG N9 UUI	DON BOB	0910 2 4 02
VA3 R		ROD	2684	K4		LIN	1940	i	TWK	GEORGE	2331	KS4 UV	ED	1769
_	RPR	PAUL	1485	N2		STEVE	2104	WA2		ROY	2903	N3 UVR	CHRIS	2347
KBO R	RQN	CHERYL	2092	кв7			1549		TWZ	KEN	2476	W9 UW	RON	3412
AA1 R		PAUL	3446	KB7 :		LEON	2771		TX	STEVE	3467	N3 UWZ		2957
KA3 R		RONALD	2533	N9 :		GENE	1202		TXJ	JIM	1448	WA1 UWZ		3099
N3 R WAO R		FRANK	2411	KB2 :		CHUCK	1964		TXU	SKIP	1958	K8 UX	DAVE	2648
WAC R		CARSON LEE	1939 3125	KE8		BERNIE PAT	0748 1927	AB5 KD3		LEA DON	1563 2344	KC7 UXA KA3 UXU		3398i 3 47 5i
N3 R		ROB	2930	KA9		TERRY	2616		TYB	BOB	2141	KG8 UY	MIKE	2721
NO R		MIKE	2305	KF8		ED	1720		TYC	JACK	3246	KF8 UY	BOB	3319
K06 R		CLAUDE	2150	AA9	SY	BOB	2157		TYL	DAVE	2603	N4 UY	JAKE	3450
		GEORGE	2440	W3 :		BOB	3058		TZA	FRANK	1945	KE4 UYS		2386
N6 R		STEVE	2923	K7		RICH	2793	W3		ROY	3205	KD6 UZJ		2033
AA8 R		MIKE	1046		SZK		1020	WG3		JOHN	1500	KB2 UZY		2356
KA1 R W6 R		TOM RALPH	2169 3149	WP2 :		MAGGIE RICK	1287 2753	WZ8		LOREN HENRY	1712 2708	WE6 V NY2 V	JIM FRED	0865 1293
W2 R		CARL		NV1		GERRY	2777	NZ2		JIM	2778	KB7 V	PAUL	2003
AE4 R		AL	2712	NB2		LOU	2944	KF4		JIM	3007	NK8 V	BOB	2302
AA1 R		NEL	3135	WR4		THEODORE	3416	KJ5		EL	3229	KB5 V	JIM	3113
KD4 R		KEITH	2073	N9 :		FRED	2301	KC4		BILL	3083	KS5 V	ED	3283
WX4 S		ED	1516	KB6		JIM	2655			BOB	3361	AC9 V	вов	3331
KF8 S		STEW	2683	N1		DAN	3173			CORB	2642	KF9 VA	STEVE	1952
KC5 S		VIRGINIA STEVE	2911 1462	KE4 :		TERRY JIM	2303 2086			CHUCK DAVID	3355 2327	WN3 VAW KB6 VBL		2981 3057
K9 S		TIM				RICK	3405			ALAN	3332	N5 VC	JOHN VIC	2311.
	_	.===	2229	,			3.00	,	-20	44.T	3332			2011.

Fl	ISTS	S CW CL	UB			Meml	bership	Rost	er	7/2/97					
				1 270			-	_							
	VC	HAL	2370		WC	GREG	1717	KD1		JON	2089	KT4		ROGER	2418
	VEC VCC	DALE STEVE	3172 3383		WC	BILL	2371	KJ5		BUD	3309	AA8		CARL	2500
	VEF	DICK	1215		WCR WCW	JOHN ·	1461	1	XE	CARL	2520	AA0		MARK	2948
	VEG	ARTHUR	2546	•	WD	MARTY	2019	KJ5		TONY	2102		MYY	MIKE	2511
AA0		BOB	3473		WD	JIM	0751	AA0		MARSHALL	1791	WA7	YYY	COWLITZ	1900
	VFN	RICHARD	1458		WDH	WILLIAM/GOV: CHUCK			ХJ	JAMES	1978		_	FISTS A.	
AA2		PETER	2530		WDX	WALT	1258 2792		XJ	CARL	3271	AF5		BOB	2035
		EARL	2535		WE	RUBEN	2615		XJQ XN	CHIP	2645	K06		HERB	2343
	VGQ	STEPHANIE	3445	AA5		BOB	2660		XN	JOHN D ALE	1965 3373	NR2	ZAA	MARTY	3015
KE3	_	RALPH	2486		WEA	ED	3011		XNH	FRED	2799	VE1		JOHN JEFF	2950
KQ4		CARL	2552		WEE	RON	2324	AB5		MIKE	1910		ZAN	RALPH	2048 1529
KK5	VI	WILBUR	2063	ł	WF	STU	1493	1	XP	GREG	1977	VE3		BETTY	1265
KA7	VIA	BERYL/VE6VIA		I	WF	BILL	2016	KD9		ED	2915	W4		JACK	2379
VE6	VIA	BERYL/KA7VIA	1005	KG8		VINCE	2460	AA7		HOWIE	3103		ZCH	LARRY	1474
KC 4	VIA	DAVE	2970	W8	WFB	LEE	2326		XT	TOM	2627	1	ZD	LARRY	2694
K4	VIZ	TOM	2423	W1	WFZ	TED	2366		XUJ	KELLI	2966		ZDL	CLARK	1766
KB3	VJF	RANDY	2374	AA2	WG	DIANE	1237	N2	XWA	LAURIE	3305		ZDW	LEE	3285
	$\Delta \Omega \Omega$	JIM	2920	KF9	WG	TOM	2318	w3	XX	"THE SUB"	1443	1	ZE	AUBREY	1289
	VKY	BRIAN	1212	AC4	WH	\mathtt{BILL}	1729	KN6	XY	PATSY	3162		ZED	FOREST	3018
	VLF	NATHAN	3041	WL7		BOB	3420	N5	ΧZ	ALLEN	2635	AC4		DUANE	1709
	VLW	CHUCK	2693	KK5	WH	DOUG	3449	NO	XZB	CRIS	2183	1	ZH	TERRY	3397
AA8		CAL	2472		WHN	JAY	3044	WA5	Y	RUSS	1721	N2	ZHF	RANDY	2151
	VM	NORM	2770	AC4		LOUIS	1595	KC3	Y	BUCK	3369	WB5	ZJN	SAM	1989
	VMY	ERNIE	3476	1	WK	WAYNE	2775	NM8	Y	TIM	3404	KG8	ZK	CHARLES	2383
	VNQ	JIM	2913	ł	WKE	BRUCE	2345		YAG	RICK	2422	KB6	ZKB	DAVE	3022
	VOQ	NICK	3045	1	WL	WES	2697	W9	YB	CLUB STATION	1787	K6	ZLL	JERRY	3291
KR4		CARL	1274	1	WLC	MIKE	3234			(SEE AD40S)	2006		ZMP	ORIN	3082
W8		LEN	2134	ı .	WLP	KERRY	2927	1	YBA	KEITH	3096	KK5	ZN	MARK	2563
	VQN	GREER	2502	•	WM	PERCY	3216		YD	PETER	2762	1	ZNC	MAX	2549
	VQR	BARRY	2774		WMB	DAVE	2522		YD	PATRICK	3468		ZNF	JERRY	1775
wo WA2	VQV	BEN	2677		WMJ	KEN	1524	1	YDT YDU	JACK JOHN	1261		ZNH	BILL	1023
KB2		RUSS K EN	3179 3110	1	WNM WOW	CAL	2632		YEW	NORMAN	2696 2654		ZO	BOB	2478
	VQY	SKIP	3031		WP	PAUL	3198	I .	YFC	WAYNE	2550	•	ZP	DAN	1276
	VQY	ROBIN	3346	AA8		BILL LARRY	2608 338 4		YIV	BOB	3161	1	ZPL	JOHN	2419
AA8		CHUCK	1434	I	WPX	JOHN	3062	1	YIW	LOIS	3029	1	ZQ	JERRY	3053
WA2		DON	1993	AC 6		ROB	3462		YJB	EVERETT	1968	KA1 AA0		DICK	1429
K2		RANDY	2080	1	WQZ	BOB	2969		YJK	вов	2625	KJ5		JANE TERRY	2 4 96 258 4
KJ6		USS PAMANITO		KF8		TED	1779	w3	YΚ	ART	1998	K7		JACK	2656
		Sub. (KoPF)			WS	EARLE	2466	AA2	YK	ERNIE	2751		ZR	JIM	3013
AE4		GARLAND	3203	AB6		GINGER	2736	N2	YKH	BILL	1577		ZRV	THERESA	2618
KB5		LANNY	1970	WA3	WSJ	ED	1715	K4	YKI	NORM	2166		ZS	SUE	3174
KB2		ELMAR	2112	N9	WSK	STEVE	2588	AA8	YL	GARY	2155	KB2		MICHAEL	2945
	VVE	MAGGIE	3424	W2	WSS	PETE	1279	N1	YLA	BOB	3068	кв8		WALT	2369
	VVW	DEAN	3133		WST	BILL	3028		YMH	ANDREW	2789	WB8	ZWW	WAYNE	1243
KB8		JON	2494	K5	WTA	BILL	1594		WMY	\mathtt{BILL}	2738	N8		JOHN	2562
KJ5 N1	VWD	GARY	3192		WTC	GEORGE	1951		YNY	WILLIE	3392	KA2	ZXX	BOB	2742
KS4		BRAD ROGER	2446		WUM	BETTY	3258	AA8		BOB	3056	KI7		PHIL	1949
KR4		KEITH	2041 2405		WUS	JIM	3439		YOP	STELLA	2597	KA1		DAN	2529
KC5		RICH	3050		WUW	CHUCK	2622	AB6		VERN	1731	W4		DON	3381
	VYW	MARY	2090		WVO	TOM	3001		YPE YPL	BILL	2096	K7		CARL	3426
K7			1943		WWI	CHRIS	1758		YPN	DEE ANTHONY	1997 2 47 1	KB8	ZYY	RAY	2046
AA7		ROBERT	3182		WWP WX	JOHN WARREN	2002 1475		YPW	FLOYD	3281	N9		ROGER	2054
W4	VZB		3307		WXH	LOU	2699		YQJ	ERNIE	1759	KB8		ROB	1995
	VZK		2339		WXQ	AL	3213	KK5		ALVA	2594	N4	ZZZ	GEORGE	2666
	VZK		2339		WXY	WALLY	1941		YRB	JOE	1914		K ₋ F	UROPE-	ASIA
W 9	VZR		3358		WYO	AL	2719	KR4		JEFF	2914	~			
WZO	W	SLEET	1284		WYU	JESSIE	2733		YSE	HANK	2670]	VI.	ZL, JA, AFRIC	-A
AC8	W		1454	K4		RON	2109		YSU	ERIC	2506	1737		NEGIE	
KP3	W		1700	AAO		BOB	2685	3	YTB	DEACON	1935	73J		NICK	2814
AE4		GUNNAR	2260	ND9		FRANK	1012	K5		HARV	3253	DL8		WOLF	1364
WF6			3148	NV1		ВОВ	1535	KI4		BOB	2647	ZU1		JOAN	1696
кв9			3262	NW8		RICH	1540	KO4		GEO	2667	YO3 1		ANDY	2287
WG8			3303	KR7		HANK	1933	AA0		DENIS	2021	2WO 2		PHIL	1187
KZ5			3413	AD5		PHIL	2905	N2	YXC	GEORGE	2351	G0 1 326 1		ESDE	0878
N1			1509	KN2	X	BILL	2951	N1	YXU	LAURIE	2202	LZ1	ade A P	WALD DIMITER	2837
AA6	WC	JOE	1532	NU5	x	JIM	2988	N2	YY	JERRY		PA3		PIET	0416 0445
				'	a.		a	'			_	1 - 1 - 1			0440

FI	STS	CW CL	U B			Membe	ership l	Roste	er 7	1/2/97					
MO .	AFJ	TIM	2824	G4	ВЈМ	FRASER	0044	G0	DRT	PETER	0652	G4	GOI	JACK	1100
M 0	AGL	JIM	2857	JP1	BJR	HAL	0325	G3	DUH	CUJRLY	1156	1	GPA	HUGUES	2249
	AGO	HARRY	2843		BLI	ALAN	1637	TF3	DX	VILLI	1658	G0	GPM	JOHN	0412
2EO .		BRIAN	0990	DA2		BARRY (W1BJ)			DXB	${ t BILL}$	0132	1	GPZ	PETE	0613
UA3 .		DIMA	0729	1	BM	FRANK	2784		DYG	PETE	1182		GQC	BRIAN	0671
	AHJ	DEREK	0117		BNS	DICK	0532		DZF	JIM	0422	1	GSQ	GEO	0266
G3 . 2E0 .		DAWSON	0265		BNU	PAUL	2854		EBA	JAN	0827	1	GSW	VICTOR	0042
9A2 .		TOM TOM	1692 2220	GB2	BOJ	HOWARD	0689	1	EBK	GEORGE	0804	1	GTN	JOHN	0638
2E0 .		PAUL	1845	1	BQV	MUSEUM MARY	1890 0040	1	EBW ECS	DAVID KEN	0421 1335	1	GUA	JOHN	0467 1819
ZS6		JOOP	2871		BRR	JIM	1063		EDC	BRIAN	0151	1	GUR GUW	JOHN GORDON	0857
SV2		PACO	0771	ZF8		BRUCE (N6NT	3325		EEJ	ALICE	0710		GUY	ELWYN	1685
	AKA	GORDON	2832		BSK	MAX	1666		EEM	BOB	0724		GVC	PETER	1096
	AKK	BILL	0002	E19		DERMOT	0015		EEO	DENIS	1889		GWD	ALAN	0817
MO .	AKN	GORDON	2870	GM0	BUH	ALEX	0076	DK8	EF	FRANZ	1837	DL2	GWL	ULF	2284
MMO .		NEVILLE	2281		BUR	ROY	0523	G4	EIB	JIM	0372	DF3	GX	KLAUS	0600
ZS6.		AIDI	1699		BUS	REG	1834		ELH	BOB	1397	G3	GXQ	WALTER	0947
MO .		JOHN	2808		BWG	JOHN	0238	DF4		DIDI	0737	1	GYD	MIKE	1352
G0 .		STAN	1671		BWJ	BARRIE	1378	S53		MIL	1098		GYY	PETER	1601
2E0 . MO .		DAVE DON	1858 2839	LA3	BXV	TED	2820	1	BRV	SHIRLEY	0107	1	GZK	LAURIE	0554
2E0 .		PETER	2039	LY3		DAVE VILMAS	0261 1811		BTJ BUD	REG	1394 0067	1	HAU	TED	0277
2 M 0	_	JIM	1844		BYG	JIM	0089		EVV	CHARLIE DAVID	0550	1	HBN HBR	JIMMY ZDNEK	1199 2812
2W0		JOHN	2217		BYX	DES	0581		EYY	ROY	2826	1	HCB	PAUL	0528
2E0		DERRICK	1860		BZZ	LUTZ	1640	1	FAA	JENNY	2236		HCP	DES	1311
G 3		JOHN	2848		CBG	ROY	0161	1	FAI	TONY	0029	P .	HDE	CHAS	0845
UA0	MMA	GEORGE	0836	ON4	СВК	MARTIN	2858	EI2	FB	LIAM	1197		HDI	BRIAN	0620
ON4	ANE	BERT	0435	G0	CEK	FRED	0334	G0	FBY	ROD	2273	G3	HEL	JACK	1663
M0 1		VIC	2291	3B8	CF	JACKIE	0951	DL8	FCO	WERNER	1183	GM3	HEN	TONY	0122
2E0 1		ALAN	2269		CGT	BRIAN	0702	1	FDJ	KEITH	1348		HFI	GORDON	0609
M0 1		JIM	2842		CHV	MIKE	0090		FDM	JERRY	0832	1	HGA	ANGIE	0041
G0 1		DARYL	2270		CIJ	MIKE	0663		FDM	FRITZ	2225	i	HGG	GORDON	0930
ZL2 1 G0 1		RALPH GILL	1073 0280		CMY	TONY PANOS	1626 1809	1	FEQ FFD	RENE DAN	1670 1149		HHL HIN	PHIL TOM	0429 • 0069
2 E 0 2		MARK	2250		COY	JOHN	1833		FFE	FRANZ	2280	i	HIS	DAVE	1071
2E0 2		IAN	2841		CPA	GEOFF	1644	1	FGT	JUL	1051	E15		GERRY	1079
EA1		FRAN	2818		CQL	RAYMOND	2873		FGW	RON	0433		нјх	PETER	0819
MO I	APC	MICHAEL	2838		CQR	FOLKERT	2850		FIP	ELLA	0215	GIO		BILL	1876
MO 2	APY	RICHARD	2804	GI4	CRQ	KEN	1064	UT9	FJ	SAM	0618	G2	HKU	TED	0841
G3 Z		HARRY	2869		CSC	SAM	0339	G4	FJC	RICHARD	0988	G0	HLG	GORDON	0488
UA4		SERGE	1180		CSR	GEOFF	1830	1	FMH	$\mathtt{BIL}\mathrm{L}$	0996	GM0		IAIN	0535
SP7		STAN	1321		CUV	JOHN	1664	4	FOD	NEV	0308		HNM	CLIFF	1379
M0 1		LES	2822		CVH	VINCE	0048	4	FPV	IAN	0946	LA3		MIKE	2821
PA3 1 G3 1		MIKE	2260 2272	EW6		VAL	1338 0632		FPY FRL	ERIC	1331 0390	ZS6		REON	1697
MO 2		RAY KARL	2827		CZC	BREN LEONCE	1371	1	FTU	BOB ROY	0502	EI6	HRL	GERALD PAUL	0975 1313
			0418		DAC	ALAN		RB5		GENE	0792		HSC		1192
		MIKE	1854		DAF	JIM	0795		FUS	PAUL	0110		HSP	ALEC	2218
G0 2			0331		DAL	DAVE	0075		FVS	JIM	0628		HSW	HENRY	1388
MWO 3	AUH	JACK	2802	G0	DBU	ERIC	1310	EA3	FWE	JORDI	1846	G0	HTX	TONY	0139
G3 2	AVL	BOB	0931	G0	DCM	ARTHUR	0288	GD3	FXN	ART	0127	GM3	HVT	JIM	1628
MO 1		TONY	2805		DCO	BRIAN	2856	EI5		${ t BILL}$	0846		HXU	SIMON	0010
G1 7			1195		DDI	PHIL	0631		GBG	PAUL	0637		HYC	BEN	0485
GWO I		HARRY	2221		DEB	DAVE	0380		GBX	WANDA	0514		HYF	GEORGE	0243
G0 .					DGH	ULI	1874		GCB	PETER	0657	1	HYT	PATRICK	0220
7J1 Z ZR6 Z		ERIC KC5JEV GREG	1800		DHZ DIX	PETE RON	0980 0740	ı	GFG GFQ	MARK RON	0113 0894		HZL IAL	DON ROD	0410 0348
9HI 3		GAET	1689		DJA	DAVE	1372	GM3		GEORGE	1154		IAV	BOB	1140
G0 2		JERRY	2862	1	DJI	DANNY	0312	1	GGE	PETER	0700	G8		DUG	0882
LY3		GEDAS	0984		DKW	JIM	0639	1	GGU	STEVE	0491	LA1		OTTO	0249
GM4		GERRY	0683	1	DNB	BILL	0058		GJN	JEURG	0948		IFM	COLIN	0728
ON4		JEMPI	1849		DNC	GEOFF	0071		GJR	ARTHUR	2271		IFT	PETER	1194
GI4 :	BBE	REG	1188	G3	DOT	JOHN	0718	G4	GJY	SID	1667	G0	IFX	BRIAN	0471
GD0			0870		DOV	DEREK	0175	1	GKE	LES	0197	1	IGJ	JEFF	1356
ZR6		BEN	1695		DPH	GRAHAM	2294	1	GKH	DAVE	0034		IGP	TONY	0129
GI0 :		SCOTTY		VK7		JERRY	0957	DF3		KLAUS	1636	1	IGQ	REG	0086
G0 :		STAN	0736	ZS5		DON	1802	JA3		BEN	1869	EI2		HUGH	2212
					DRA	ACI CLEM	1077 0973		GOD	RILEY JOHN	08 4 7 1604		IJE	DON	0509 0398
PAJ.	ממם	BRAM	1040	Jort/	DKU	CLEM	0913	ا نون	GOD	OOUN	1004	I G0	TPN	RICHARD	0230

Fl	STS	CW (CLUB			Men	nbership I	Roste	er 7	//2/97				
G0	IMF	ALF	0427	ON5	KK	GEERT	1836	G0	MEX	HARRY	2245	G0 0	NS JIM	0741
G3	INA	RON	0097	G0	KKL	PHIL	1859	GM0	MFE	JACK	0603	GW0 O	NU DENNIS	0591
	ING	JOHN	1674	1	KKX	DOUG	0466	G0	MGD	DENNIS	0630	G0 0	OD TIM	1350
	INM	TOM	0084	,	KLF	TONY	1198	į.	MGV	BOB	2867	GX0 O		1000
	IOF	GRAHAM	0231		KLQ	EDD	1843	i	MHE	BRUCE	1677	G4 O		0812
	IOV	GORDON	1147	I	KLS	RON	1336	1	MJV	ALBERT	1357	GW0 O		2852
	IQA	REG	1116		KMG	DAVE	0124		MJX	TONY	1893		ORD ERIC	0963
	IRL IRM	AUDREY DEREK	0510 0123		KMG KMU	BILL	0484		MKJ	KEN	1390	G0 0		0852
	IRM	PETER	1092		KNJ	JOAN BOB	0786 0463	l .	MLA MLD	ERNIE KEN	0606	G4 0		0579
G 0	IRO	BRYAN	1823		KPB	TONY	0512	1	MLW	IAN	1091 0130	G0 0		1178 0028
	IRP	COLIN	0690		KQM	BOB	2211	i	MMF	BILL	1613	G0 0		0888
	ISC	RENIE	0610		KQN	JACK	0699	ON6		MARTIN	1826	G0 0		1368
	IST	BILL	0991		KRT	ERIC	0133		MOU	DICK	0668	G0 0		0822
G0	ITS	ROY	0498	G3	KTT	ALAN	1308	HA2		JANOS	0899	G4 P		1693
GW4	IUN	RON	2835	G3	KUL	DOUG	0840	G0	MRH	RON	1327	GIO P		0831
G3	IVF	SMUDGE	1614		KUS	BERT	0856	G0	MRM	ERIC	0586	GI4 P	CY FRED	0156
	IXI	TREVOR	1141		KVE	KEN	2235	G4	MSR	JEFF	0357	GO P	DM MIKE	1343
	IXT	BOB	0165	1	KWD	KEITH	0525		MTG	KLAUS	2200	G0 P	EH TONY	1657
	IZU	MIKE	0809	l .	KWO	KEN	0006		MTJ	JOHN	0873	G3 P		1303
	IZW	DEREK	1302		KXG	KEN	0938	ı	MVG	HERBERT	0760	GMO P		2847
ZS6 G0	JAN	JAN	1698		KYC	ALAN	0513	ı	MVZ	PAULINE	1160	GWO P		0950
G0	JBP JBQ	ROBIN SIMON	020 5 020 4		KZA KZK	ERNIE BRI AN	0738 2288		MWF	RAY BRIAN	1151	G4 P		2242
	JD	VLAD	1385		KZZ	NIGEL	1821	1	MWU MYI	GEOFF	0701 2274	G3 P G7 P		0257
G4	JEG	BILL	2254		LAW	YANN	0752	1	MYY	JOHN	2853	GWO P		1624 1106
GW3	JEZ	BOB	0364		LBT	KEN	1897		MYZ	MARIAN	0636	GWO P		1053
G0	JFD	GRAHAM	0477		LGA	DON	0642	1	MZS	TOM	0150	GO P		0883
G4	JHZ	LES	1322	G0	LGF	TERRY	1817	1	NAG	PEKKA	2811	G3 P		0977
G0	JIT	DICK	1136	GM3	LGM	BILL	0564	DL2	NAI	ISRAEL	2803	GWO P	PG SYD	2285
	JIZ	JESSE	0179		LHI	PETER	2219	UA4	NAL	KIRIL	0842	GO P	PI DEREK	1639
	JJQ	WAYNE	0851		LHK	GWYN	1125		NBI	LES	2297	G4 P	PK CLIVE	0244
	JKW	ALAN	1132		LHZ	JIM	1155		NCL	RON	0168	G1 P		1375
	JLQ	CHAS	0622		LIE	BRIAN	1370		NDT	PAUL	0653	G4 P		. 0134
G0	JLX	ANDY	0358		LIM	GEOFF	1652		NEB	JOHN	0755	G4 P		0634
G3 UU4	JMZ JN	JOCK ALEX	2865 0678		LIR LIU	PIP	0942	Y04		SIL	1330	GO P		1676
	JNR	SHANE	1396		LJB	GEORGE P A UL	0816 0493		NIR NIY	DOUG EDDIE	1121 1612	GO P GW3 P		1179 1315
	JOE	JOE	0764		LJU	COLIN	0099		NJB	BOB	1317	G4 P		0837
	JOH	NIGEL	2282		LLN	PETER	1871		NKI	LUIGI	1052	G4 P		0037
G0	JON	JOHN	0774		LOA	JOHN	0121		NKO	KEN	0862	G4 P		1062
IK7	JPJ	WALTER	1349	G0	LOE	STUART	0625		NLB	SAM	0983	GO P		1072
G3	JPZ	IAN	1347	G0	LPF	RICHARD	0960	G0	NNJ	SID	1386	G4 P	TE KEN	0723
	JRE	JOHN	0577		LPS	ERIC	1398	G3	NNK	ALF	2815	GIO P	UZ IRENE	1656
	JRN	ART	0295		LQX	TREVOR	0425	1	NNO	JOHN	0478	GO P		0876
	JRT	TOM	0745		LRB	STEVE	1171	G0	NOB	LIONEL	0785	GO P		0979
	JTO	ERIC	0766		LRE	LARRY	0750		NQH	JOE	0945	GW4 P		0160
	JTS JUD	TOM AL	1681 0697		LRP LSH	PETER ALAN	1672 0508		NQL	MAURICE	1816	GMO P		1057
UA6		HARRY	0820		LSI	JOHN	0368	ZS6	NSU NT	GEORGE DWIGHT	1606 1805	17 P GW0 P		13 4 2 0976
	JWB	BILL	0385		LSY	JOHN	0196		NTM	JIM	1899	G6 Q		2864
	JXS	CLARRY	0506		LTH	LYNDON	2226		NTP	CLAUDE	2275	DK7 Q		0362
	JXT	TED	1603		LUZ	FRED	0444		NTR	JIM	0264	SP2 Q		2801
L21		TONY	1318		LVB	MALCOLM	1175		NUP	KEVIN	0796	G4 R		0174
G4	JZM	CHARLES	1688	G5	LW	ALEC	0682	G0	NVP	PENNY	0704	GO R		1687
	JZU	ROSS	0679		LWI	FRANK	0901	G0	NVY	PETER	1316	GO R	CE KEITH	1054
DL8		DIETER	0593		LWJ	COLIN	2240	TI5		ULISES(K3LU)		UB5 R		0936
	KCA	JOHN	0200		LWU	DERRICK	1608		NXN	TERRY	1104	G3 R		1168
	KCJ	ALAN	0602		LYY	JOHN	0696		NYZ	STEVE	0982	G4 R		0186
ZS5		BILL	1801		LZA	DEZ	0833		NZL	JOHN	0773	DJ3 R		1894
	KDJ KEF	KLAUS TOM	2851 1839	S51	LZL	DAVID BRUNO	0587 22 4 3		NZU OAV	RON	0309 0562	GO R		0895
	KEW	BOB	0275		MAM	DAVID	0497		OBU	DOUG KEITH	1615	G0 R G3 R		1164 2216
GW4		BARRIE	1616	GW0		BOB	0935		OCG	FLORIAN	2201	G3 R		0229
	KHI	BILL	0706		MCE	BOB	2829		ocv	MARTIN	1648	G3 R		1662
	кнх	DANIELE			MCK	GERALD	0230	DF8		SIGI	0949	G4 R		2238
G0	KHY	JOHN	0487		MCV	SANDRA	0555		ОНХ	SAM	0455	GO R		1134
	KJH	CHRIS	0017	ZS6		ERIC	2809		OKM	JOHN	2268	GO R		0981
G4	KJJ	JOHN	1630	G0	MEG	MEGAN	0518	G0	okz	JOHN	0780	G3 R	HP JOHN	1879

F	ISTS	S CW CI	LUB			Me	mbership l	Roste	er 7	7/2/97					
	RHR	KEN	2248	G0	TCF	PETER	1340	GW0	UWM	JOHN	1810	G7	WIH	MIKE	2807
	RHU	MALC	2810	1	TCJ	DOUG	1346	1	UXK	PAT	1622	G3	WII	FRED	0559
	RIQ	DOUG	2255	•	TEB	CHRIS	1675	1	UYK	JOSEPH	1324		WJO	PETER	1846
G3 ZS5	RJV RK	GEORGE ROD	0428		TFK	LES	1641	1	UYP	ROGER	2849	1	WKG	ROB	0079
G0	RKT	DAVID	1804 1066		TFV TGF	TERY JIM	1177 1621		UYP UZH	ROGER	2840	1	WKJ	CHRIS	2239
ON6		GUIDO	1080	1	TGU	BILL	1329	,	UZQ	STEPHEN PETER	1829 1691	1	WLC	BRIAN ALAN	2205 2208
G0		ALAN	0902		THA	PETE	1174	1	VAO	DENNIS	2819	1	WMC	PETER	2279
IK2	RMZ	MARTIN	0853		THV	JOHN	1374	1	VAT	TONY	1895	1	WMR		E GP 1873
G0		MIKE	1056	G0	THX	VIC	1634	GW1	VAW	BRIAN	0420	1	WMW	DOUG	2813
OK1		PETR	2833		TIP	GEORGE	0940	1	VBB	GRAHAM	2267		WNA	TONY	0598
G4		TOM	0036	1	TKT	PETER	1126	1	VBH	BILL	2252		WNB	SID	1892
ZS5 G0		ROSE PETER	1803 2836		TKX TLF	ARTHUR FRED	1668	1	VBT	HOWARD	1682		WNI	BILL	0413
	RSA	JOHN	2244	,	TMX	TERRY	1853 1862	I	ACŐ ACŐ	JIM RICHARD	2299 18 4 2		WNW WP	BOB JACK	2800 0310
	RSF	ALAN	1877	1		NORMAN	1653	ı	VCY	PHILIP	2277	1	WPK	BOB	1870
G4	RSK	GORDON	0030		TNY	TONY	1669		VD	BERNARD	1617	1	WPM	NICK	1886
G0	RSN	RICHARD	0869	GD4	TOW	KEITH	0898	DL1		KLAUS	2823	VK3		MARLENE	1359
		ALAN	1847		TRO	NESS	1323	G0	VDI	JOHN	1840		WRR	JOHN	2276
G0	RSU	GEOFF	1150		TRU	HARRY	2233		VDL	JOHN	0549	1	WSL	JOHN	2295
G7		KLAUS	1325		TTH	TEX	0995		VEB	BROOK	0952	ZS1		WILF	1694
	RTN RVO	GERARD	2234 1102		TUA		3MMQ3030		VFF	STEPHEN	1872	ZS1		WILF	1694
	RVW	DAVID STEVE	1850		TUE	RAYMOND WALT	1191 1139		VFM VFV	TONY BOB	1808 1684	1	WTD WTD	DIETER COLIN	1068 1841
G4	RWP	EDI	0286	1	TUX	CHRIS	1307	1	VGF	DAVE	1852	1	WTO	ELAINE	2259
G0		NIGEL	1619	1	TVI	ROD	0747	1	VGR	PETER	2289		WUY	ALEX	2834
GW3	SB	CHAS	0345	1	TWN	DAVID	1334	1	VGV	ANDY	1654	1	WW	PAUL	1345
G0	SBH	TED	1655		TZV	GORDON	1392	G4	VIJ	\mathtt{BILL}	0807	G4	WWQ	DAVE	1056
G0	SDA	COLIN	1172		TZW	JOHN	1332	1	VIT	\mathtt{BILL}	1665	1	WWT	JOHN	1114
	SDO	DAVE	2861		TZZ	ANTHEA	2298	1	VIY	JON	1631	1	WWT	PETER	1891
F5	SED SEE	GEORGE JACK	1867 2237		UBE UCJ	JOHN	0934 2860	1	VIZ	NICOLA	1659	•	WYV	ALEX	1813
G0	SEF	DAVE	1129		UCK	SEAN BARRY	1344	1	VJJ VJK	STAN MIKE	182 4 16 47	OZ9	WZ XAE	KNUD MIKE	2246 2293
GW0	SFO	KAY	1105	i e	UCQ	PHIL	1319	1.0	VKL	ROD	1864	1	XAH	DAVID '	2222
G0		DAVE	1161		UDX	WOLF	1181	1	ΛΓ	IAIN	0890	1	XCF	COLIN	2296
GW0	SGG	BILL	1602	ON5	UE	DANNY	1825	G0	ATC	ANDREW	2251	GI4	XFS	LYN	0464
G 0	SJC	CLIFF	1391		UER	CYRIL	2232		ATA	EDDIE	2213		XHE	RICHARD	1365
G3	SJE	JOHN	0391		UEW	DAVE	0584		ALA	PHIL	1865		XHL	NOEL	1354
G0		SAM	1 18 5 2817		UFF UFT	ROY	1382 1650	1	VLY	PHIL	1865 2257		XHZ	FRANK	0008
GM3	SKN SKR	DENIS JOHN	1115		UGB	KEV RICHARD	2830		VMV	BRIAN RAY	0402		XJU XMM	LAURIE TOM	0153 1395
G0	SLJ	DENIS	1838		UGZ	LEN	1353		VNG	DAVE	1097		XOC	PETER	1645
GM0	SMT	ALLAN	1610		UHJ	BILL	1868		VOJ	ART	0007	1	XPE	MIKE	0100
GM4	SMZ	DAVID	2256	JA7	UHM	MASA	0018	G5	VQ	ERIC	1679	GW4	ХQН	JOHN	0576
G0	SNE	ANNE	1123		UHM	STEVE	0304		VQA	JULIAN	2207		XUZ	RAY	0777
	500	HAROLD	0767		UIP	-??	1878		VQO	LES	0874		ΧV	RON	0871
	SPK		1623			TONY	2868			VICTOR	1110		XVE	JOHN	0342
	SPS SQD	STEVE TOM	1399 28 4 5		UJD UKX	MERV RAY	1680 1618		VS VSS	GEORGE RAY	0267 1812	YU1	XWV	BEN MAT	22 41 1660
	SQF	JOE	1384		UKZ	RAY	0148		VTI	TERRY	1807		XZM	DES	2806
	SRQ	GEORGE	0662		ULB	DON	1649		VTN	RON	1851		YEP	TED	0020
	SSA	KEITH	1304	G4	ULT	LES	0675	G3	VUN	GLORIA	1620	G4	YFD	FRANK	0486
	SSG	REG	1169		UMN	JOHN	1678			BERNARD	0838		YJB	RON	0601
	SSH	ROY	0999	ı	UMT	DEN	1861		VXY	DAVID	1099		YLB	JIM	0492
	STE	STEVE	1875	1	UOM	NORMAN	1369		VYR	NORMAN	2844		YLL	RON	0282 0489
	STR STS	BILL RONNIE	1609 1661	1	UOP UPS	JOE PAUL	1863 1651		VYX VYY	PETER BRIAN	2214 0900		YLT YMB	TOM MALCOLM	0681
	SVX	IAN	2223		UPU	ROGER	1643		VZG	WILLIAM/K1W			YNU	JOHN	0073
	SWT	LEN	1642	4	UQE	BERT	1815			DAVE	2286		YRP	IAN	2825
	SWU	PETE	1389		UQP	GRANT	1383		WAO	PETER	2215	G4	YRS	GERRY	1326
	SXE	JOHN	1101		URM	PETER	1632	1	WAS	ALAN	2828		YSX	STEWART	2872
	SXG	KEITH	1138	1	URS	FRED	1328	4	WAU	JILL	1690	1	YXJ	DANNY	1305
	SXZ	JIM	1339		URX	DAVID	1351	1	WAY	BOB	2292		YYW	DAVE	1600
	SZE	CHRISTINE		GI0		JOHN	1387	1	WBN	TREV JEAN	0381 2855	1	YZO	JOHN	2863 1312
BV2	TAW	TONY IAN	1884 1300		US W UTL	BILL ALAN	0405 1393		WBT WES	WES	2833	HB9	ZDD ZE	DEREK FRANK	2859
	TBB	BOB	1135		UTR	DAVID	1629		WFM	PETER	1880		ZFT	MARY	1162
	TBD	TERRY	1163	G0	UUA	WARWICK				NOLLY	1633			RUTH	1314
IK5	TBK	STEVE	2247			PETER	0376	G0	WHP	JOHN	1898		ZIB	TONY	0811

FISTS CW CLUB

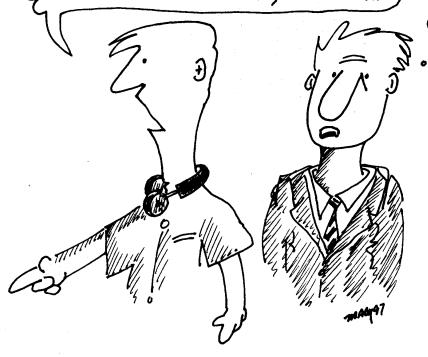
Membership Roster 7/2/97

	SWIT	s Other	Misc.
G3	ZWF	JOHN	1896
G4	ZVR	TONY	0666
G4	ZVL	HENRY	0538
GM4	ZTO	JOHN	0695
G3	ZRZ	IAN	0781
G3	ZQS	GEO	0001
DL1	ZQ	HANS	0313
G4	ZPY	GORDON	2278
G3	ZNR	DEREK	2816
GW3	ZNN	WALLY	0964
G4	ZLX	KEN	2258
G3	ZJJ	MIKE	0274

SW	L's,	Ot	ther	Misc.	
Brian		SWI		0440)
		SW		1814	l
		SWI	_	1818	3
Di		SWI		1882	2
Brenda	ın	SWI		2253	3
Ron		SWI		2290)
James		No	call	2787	7
Doug		No	call	3035	5
Linea	(YF	of	VY2R	B) 3036	5

By April Mary Krus

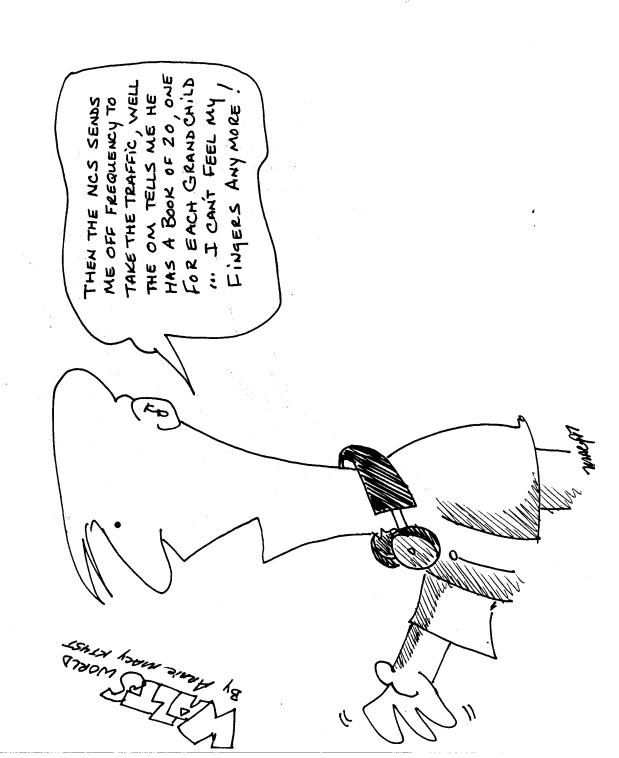
AND RIGHT NEXT TO THAT BIG PILE OF MAGAZINES IS MY HF RADIO, AND UNDER THOSE PAPERS IS MY 2M, FM AND MY CODE KEY IS ... WELL IT'S HERE GOMEWHERE, I THINK ...



RULE NO. 1, IF YOU'RE GONNA SHOW SOMEONE.
YOUR SHACK, MAKE SURE IT'S READY TO BE SEEN ...

FISTS CW CLUB, P.O. Box 47 Hadley MI 48440-0047 Have you checked your mailing label lately?? Your renewal due date is on the upper right corner of the mailing label.

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